

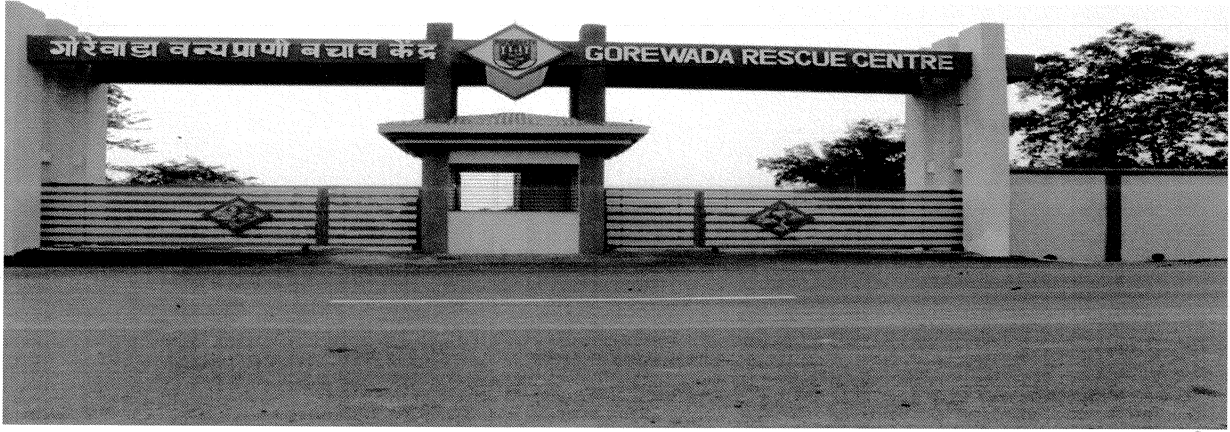
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Ofc Central Zoo Authority
Diary No. 18
Date 11/12/15



**Forest Development Corporation of Maharashtra
Limited, Nagpur.**

**Office of the Managing Director
FDCM Limited, Nagpur, Maharashtra
(A Government of Maharashtra Enterprise)**



**MASTER PLAN FOR RESCUE CENTRE
AT-GOREWADA,
Taluka & District: NAGPUR, MAHARASHTRA**

PERIOD: 2015-16 to 2024-25

By

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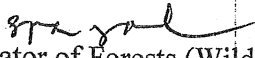
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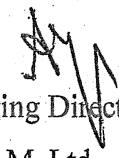
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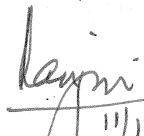
Certificate

This is to certify that the Master Plan (2015-16 to 2024-25) for Scientific and long term Management of Rescue Centre at Gorewada, Nagpur has been prepared by Forest development Corporation of Maharashtra Limited, Nagpur (F.D.C.M. Limited) as per guidelines stipulated by Central Zoo Authority of India (CZA).


Principal Chief Conservator of Forests (Wildlife) &
Chief Wildlife Warden,
Government of Maharashtra, Nagpur


Managing Director
F.D.C.M. Ltd,
Nagpur

Master Plan is approved subject to the conditions that the responsibility of Mobilizing the Financial resources for implementation of the Master Plan will be the sole responsibility of Zoo and Rescue Centre Gorewada, Nagpur.


11/12/2015
Member Secretary
Central Zoo authority
New Delhi

Member Secretary
Central Zoo Authority
(Ministry of Environment & Forests)
Govt. of India, New Delhi

Preface

Nagpur City, also known as orange city, is the largest city of Central India and is the second capital of Maharashtra. Nagpur boasts of vast forests and National Parks, Sanctuaries, Tiger Reserves within a radius of few hundred kilometers. In fact, Nagpur has been declared as “TIGER CAPITAL” of the country. Some of the Protected Areas (PAs) surrounding Nagpur are: Tadoba-Andhari Tiger Reserve (Maharashtra), Pench Tiger Reserve (Maharashtra and Madhya Pradesh both), Nagzira-Nawegaon Tiger Reserve (Maharashtra), Bor Tiger Reserve (Maharashtra), Melghat Tiger Reserve (Maharashtra), Satpuda Tiger Reserve (Madhya Pradesh), Chaparala Sanctuary, Umred-Karandhala Sanctuary, Tipeshwar Sanctuary, Painganga Sanctuary, Pranhita Sanctuary, Koka Sanctuary and other sanctuaries of Maharashtra. Tiger tourism is witnessing a good growth in and around the city. Due to presence of ideal habitat for wildlife, large number of wild-animals including big cats like Tiger, Leopard are found in these forests. Sharing of common resource of nature leads to conflict between man and wild animals. Wild animals get injuries and sometimes are stranded in human habitation leading to injuries and isolation. This necessitates the need of rescue of these wild animals, treat them properly and to rehabilitate them in their habitat. If it is not possible, then to have a home for them. That is why task of establishing Rescue Centre at Gorewada is under taken by Forest Department through Forest Development Corporation of Maharashtra Limited (FDCM Ltd.).

Government of Maharashtra assigned the task for establishing International Standard Zoo and Rescue Centre at Gorewada, Nagpur on 1914 ha forest land and 25.57 ha non forest land. Accordingly, a Concept Plan for Gorewada Rescue Centre was submitted to Central Zoo Authority of India (CZA) for its approval. Central Zoo Authority of India vide its letter no. 20-2/2010- CZA (Vol-I)(M)/ 1594 dated 28/29-08-2012 had given its in principle approval for establishing Rescue Centre at Gorewada under condition that approval of Honourable Supreme Court of India would be sought for and fulfillment of conditions laid down therein. Honourable Supreme Court of India by its Order dated 05-08-2013 had given its approval for establishing Gorewada Zoo and Rescue Centre. . CZA has approved various enclosures and layout designs for proposed species to be rescued/ treated/rehabilitated at Gorewada vide its order dated 19.11.2013 & 09.01.2014. CZA has also approved detailed Master (Layout) Plan & Master Plan of Gorewada Zoo and Rescue Centre vide its letter No. F.No. 23-11/99-CZA(403)(Vol.I)(AK)/7196, dated 27.05.2015.

Government of Maharashtra has provided required fund for construction of various enclosures and other infrastructures and Public Works Department (PWD), Nagpur had executed the task of constructions. Maharashtra Animals and Fisheries Sciences University, Nagpur had

signed an MOU (Memorandum of Understanding) for providing veterinary support and conduct wild life conservation education and research at Gorewada.

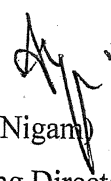
As per conditions laid down by CZA by giving its approval to Concept Plan, task of Master Plan was taken up by FDCM Ltd. Shri Satish P. Wadaskar Divisional Manager Gorewada Project, Nagpur and Shri Ramjee Singh Yadav IFS, General Manager WFP, FDCM Ltd Nagpur took keen interests for it and have prepared this Master Plan for a period for ten years 2015-16 to 2024-25.

Salient features of the Master Plan include the treatment of rescued, as well as, zoo animals and their rehabilitation, conducting conservation and education in the field of wild animals and create protocol for treatment to wild animals. Conservation breeding programme has also been envisaged. Proper management of wild animals, their treatment, and care for proper medication, food and sanitation have been envisaged.

In order to meet unforeseen incidences, a detailed disaster management plan and contingency plan have been incorporated. A plan to upgrade the skill of animal keepers and other staff, a capacity building plan has been prepared. Knowledge of Information Technological advancement and e-governance has also been proposed to be incorporated in due course of time.

Special Purpose Vehicle (SPV) of FDCM Ltd and its Joint Venture Partner will shoulder the responsibility of management from its own budget. Government of Maharashtra through FDCM Ltd has created its assets.

Establishment of International Standard Zoo and Rescue Centre at Gorewada will be one role models in terms of facilities, infrastructures and management practices. Rescue Centre will be an ideal place for treatment of rescued wild animals and zoo inmates. Rescued wild animals will get opportunity being rehabilitated in their ideal natural home of nature otherwise would have been lost. It will a big leap in the field of wildlife conservation and protection. A service much needed by human being to wild animals indeed.


(A.K. Nigam)
Managing Director,
F.D.C.M. Ltd., Nagpur.

**MASTER PLAN FOR RESCUE CENTRE, AT- GOREWADA,
NAGPUR, MAHARASHTRA
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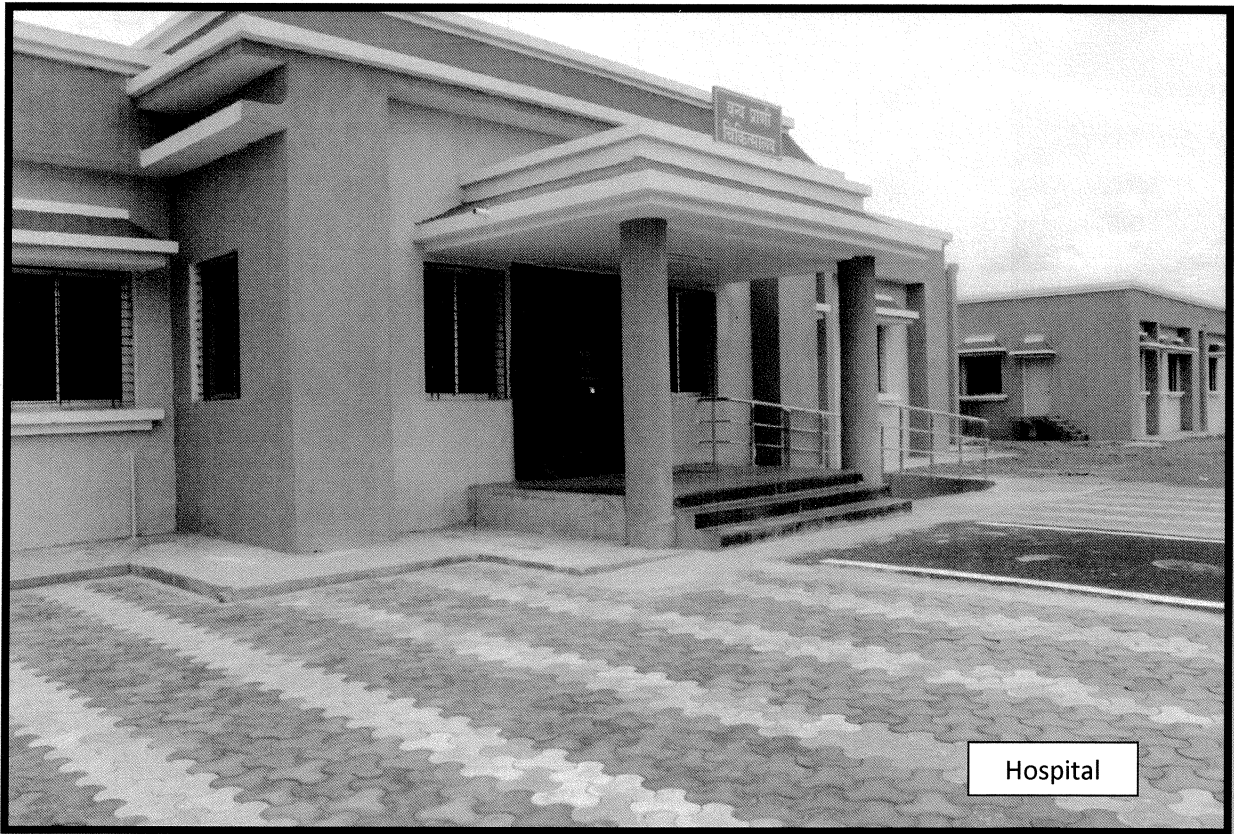
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Administrative Building



Hospital

PART - I

CHAPTER-I

1. Introduction:

1.a. General Introduction and History: The geographical area of Maharashtra state is 3,07,713 km² spread over 36 Districts, 358 Talukas and 43,711 villages. Out of this 61,939 km² area is under forests, amounting to 20.13% to the geographical area. As per the tiger estimation report from Wildlife Institute of India for 2014, there are 190 tigers in the State.

The population of Maharashtra is 11.24 crores as per 2011 census and it includes 45.20% of urban population. The cattle population is about 3.69 crores. Excessive cattle population, growing human population and urbanization, are causing conflicts between humans and wild animals. The cases of attacks from tigers / panther / sloth bear / wild boars etc on humans and domestic animals are noticed in Maharashtra and frequently in Vidarbha region of Maharashtra. Hence, urgent need is felt to rescue injured, incapacitated and problematic wild animals. For this well equipped rescue centre for treatment of injured and wild animals and a battery of well trained staff and official are the need of hours. Accordingly, establishment of Rescue Centre was taken by Forest Department of Maharashtra through Forest Development Corporation of Maharashtra Limited, Nagpur at Gorewada, Nagpur.

Number of cases of humans killed or injured caused by tiger/panther attacks in Vidarbha is as under-

Year	No. of cases of humans killed	No. of cases of humans injured
2005-06	11	234
2006-07	9	213
2007-08	28	184
2008-09	31	508
2009-10	12	310
2010-11	33	457
2011-12	24	426
2012-13	33	376
2013-14	26	312

The comparative statement of no. of cases of attacks by wild animals on humans in the State and Vidarbha region is as under-

Year	No. of cases of humans killed			No. of cases of humans injured			No. of cases of cattle killed/injured		
	In State	In Vidarbha	%	In State	In Vidarbha	%	In State	In Vidarbha	%
2006-07	31	9	29	342	213	62	1818	639	35
2007-08	34	28	82	241	184	76	1799	1218	68
2008-09	46	31	67	726	508	70	5200	1920	37
2009-10	20	12	60	514	310	59	1843	986	53
2010-11	51	33	65	722	457	63	4363	1923	44
2011-12	37	24	65	515	426	83	4422	3124	71
2012-13	57	33	58	494	376	76	5496	3225	59
2013-14	36	26	72	429	312	73	8701	2656	31

During last three years a large number of leopards and orphaned tiger cubs have been rescued and kept in Maharajbag Zoo, Nagpur and in the respective Forest Divisions wherever cages are available. Most of the rescued animals cannot be released and hence they need to be kept in legally created and properly managed Rescue Centers.

In Vidarbha region there is no rescue centre in operation, hence, creation of Rescue Centre at Gorewada forest Compartment No. 793 is proposed. The area of the Rescue Centre is approximately 25.00 ha. Immersed in forest with crown density from 0.4 to 0.6. It is about 10 kilometer. away from Zero Mile Stone at Nagpur, and is a suitable location for the establishment of rescue centre for the following reasons-

1. It is nearly centrally located for almost all National Parks like Nawegaon National Park, Tadoba National Park, Gugamal National Park and Wildlife Sanctuaries like Bor, Nagzira, Pench, Mansinghdeo, Umred-Karandla, Andhari, Chaparala, Tipeswar, Pain Ganga, Sipna, Kate-Purna etc of Vidarbha region. Rescued/trapped animal can be moved within 5 hours from all over Vidarbha.
2. It is well connected by roads and rail route.
3. Animals can get medical aid within time as Maharashtra Animal husbandry and Fisheries University, Nagpur (MAFSU) is ready to provide veterinary support.
4. Necessary medicines and equipments are available at Nagpur.
5. Site of Gorewada is a suitable habitat for wildlife of Central India that would certainly suitable for rescued wild animals.

Forest Department through Maharashtra State, vide its letter No. Desk-22(6)/48/2009-10 dated 21st December, 2009 sent a Detailed Project Report to Central Zoo Authority of India to seek mandatory approval for establishing a Rescue Centre at Gorewada, Nagpur. Government of Maharashtra also issued a Government Resolution dated 29-11-2011 (**Annexure-Ia & Ib**) regarding establishing International Standard Zoo and Rescue Centre at Gorewada on sprawling 1914 ha of forest area and 25.57 ha non forest land at Gorewada.

Central Zoo Authority of India vide its letter no. 20-2/2010- CZA (Vol-I)(M)/ 1594 dated 28/29-08-2012 had given its approval for establishing Rescue Centre at Gorewada under condition that approval of Supreme Court of India would be sought for and fulfillment of conditions laid down therein (**Annexure-II**). **Central Zoo Authority of India vide its letter F. No. 23-11/99- CZA(403) (Vol-I)(AK)/ 7196 dated 27-05-2015 had given its approval of Revised Master Plan (layout) Plan & Master Plan of Zoo and Rescue Centre, Gorewada, Maharashtra (Annexed as Annexure III-a & III-b).**

To comply the mandatory permission of Hon`ble Supreme Court of India, a separate Interlocutory Application (IA) no. 22/2012 in Writ Petition No. 47/1998 was filed in the Supreme Court of India on 19-10-2012 (Copy enclosed as enclosure no. IVa). Honourable Supreme Court of India, while disposing IAs No. 22-23 & 24 together, had granted its permission for establishing Zoo and Rescue Centre at Gorewada vide its order dated 05-08-2013 (**Annexure-IVb**).

1.b. Vision of the Rescue Centre: Government of the Maharashtra vide its Government Resolution No. WLP-1009/C.R. 119/F-1 dated 29th November, 2011 had taken decision for establishing International Standard Zoo at Gorewada, Taluka - District- Nagpur, Maharashtra with the broad vision : To promote ecotourism and conservation and breeding of endangered and the wild animals which are extinct in the region, and rehabilitate them to their natural habitat.

1.c. Mission of the Rescue Centre: The Government of Maharashtra with its above Government Resolution had clearly taken decision to have wildlife conservation and their rehabilitation on large scale involving public private partnership (PPP) mode of financing with Government stake of 51%. It has also taken decision to involve local University in the field of wildlife conservation and awareness and conducting research in the field of Wildlife. Forest Development Corporation of Maharashtra Limited, Nagpur (FDCM Ltd) a Government of Maharashtra owned company had been given the task of establishing the Zoo and Rescue Centre on 2014 ha forest and 25.57 ha non forest land at Gorewada, Nagpur. Maharashtra Animal and Fisheries Sciences University, Nagpur (MAFSU) is collaborating

FDCM Ltd for providing veterinary care, education and research activities in respect of wild animals.

1.d. Strategy of the Rescue Centre: As discussed above, the Rescue Centre which would be part of International Standard Zoo at Gorewada, has been constructed with the help of Grant received from Government of Maharashtra. The operations and execution of Rescue Centre will be carried out with the veterinary support from MAFSU and Grant received from Government of Maharashtra until the Special Purpose Vehicle (SPV) of FDCM Ltd and Joint Venture Partner comes into existence. After that monitoring and maintenance of Rescue Centre will be responsibility of SPV.

1.e. Main Objectives of Rescue Centre : Main objective of International Standard Zoo at Gorewada are enlisted in Government Resolution dated 29th November 2011 as follows:

- (1) To promote International Eco-Tourism.
- (2) To promote wildlife conservation (Scientific Breeding of endangered species and release them into nature).
- (3) To promote Research and Education on wildlife conservation.
- (4) Rehabilitation of injured, sick and animals seized from individual/firm/company without having proper license.
- (5) To develop up to date Training Centre for mitigation of man-animal conflicts and to handle such (man-animal conflicts) incidences.
- (6) To promote Nature based education, entertainment and tourism.
- (7) To generate opportunities for employment / self –employment.

Accordingly, establishing the Rescue Centre and Conservation Breeding Centre have been enlisted in the Government Resolution's item no. 3). 6) in the said Government Resolution date 29-11-2011 as follows:

3) 6) **Rescue Centre and Breeding Centre:** A Rescue Centre will be established for treatment and rehabilitation of injured animals, sick animals and animals seized without having proper license to keep them. Similarly, a Conservation Breeding Centre will be constructed for breeding of endangered species.

Similarly item no. 9) envisages for education and awareness efforts and item no. 10) envisages for **Research:** Tie up will be established with local Universities to pursue various researches related to wildlife.

On the basis of above discussion, the **objectives** of the present Gorewada Rescue centre are as follows:

- a. All seized, rescued, sick or injured animals shall be brought for treatment and subsequently (if possible) would be released in their respective wilderness.
- b. All rescued/abandoned young wild animals not fit for release shall be reared in the rescue centre.
- c. Study and scientific research on behavior of the rescued wild animal will be carried out.

1.f. Physical features like topography of the area: The topography of the site is gentle slope to undulating. But the site of the Rescue Centre is almost plane. The plateau landform ranges from 340 to 350 m. above Mean Sea Level. The scattered weathered materials mainly consists of boulders, at some part created rough topography. Soil is clayey with immersion of black cotton soil in between. Near to the proposed site, Gorewada Lake is situated to other end of the forest tract which provides drinking water to citizens of Nagpur.

1.g. Geology: The study of geology broadly reveals the Basalt originated in Deccan Trap associated with sediments belonging to lower Eocene to Upper Cretaceous period.

1.h. Rock and Soil: Basalt originated in Deccan Trap and soil is shallow, well drained clayey with moderate erosion. The texture of soil is clayey in nature.

1.i. Flora & Fauna: The proposed site is classified as Southern Tropical Dry Deciduous Forests (5A/C3) according to Champion's and Seth's Classification of forests. The site consists of local flora as well as it is supplemented with artificial plantation using local species. The main species found within this site are enlisted as below-

TREE SPECIES (Vernacular Names shown in bracket): Acacia nilotica (Babul), Acacia catechu (Khair), Azadirachta indica (Neem), Salmallia rubra (Semal), Butea monosperma (Palas), Cassia siamea (kashid), Dalbergia sisoo (Sisoo), Gmelina arborea (Shiwan), Hardwickia binnata (Anjan), Eucalyptus spp. (Nilgiri), Leucenea leucocephala (Subabul), Soyamida febrifuga (Rohan), Cassia fistula (Amaltas), Tectona grandis (Teak), Santalum alba (Chandan) Syggium cuminii (Jamun), Terminalia arjuna (Arjun), Ficus Glaumerrata (Gullar), Ficus religiosa (Pipal), Ficus bengalensis (Wat/Burgad) etc.

SHRUBS: Annona squamosa (Sitaphal), Lantana camara (Ghaneri), Zizyphus eonoplea (Yeruni), Zizyphus mauritiana (Ber), Helecteres isora (Murud sheng).

HERBS : Acheranthus aspera (Aghada), Cassia tora (Tarota), Eclipta alba (Bhringraj), Hiptis suaveolens (Rantulas), Tridax procumbans (Kambarmodi)

CLIMBERS: Hemidesmus indicus (*Khobarwel*), Ipomea quamoclit (*Ganesh pushp*),
Mucuna puriens (*Khaj koeli*), Cascuta reflexa (*Amarwel*).

GRASSES- Andropogon cantottus, Schima nurvosum etc.

FAUNA : The fauna of the area enlisted as below-

MAMMALS: Rottus rottus (Black rat), Mus mosclur (House mouse), Funabules pennant (Squirrel), Herphtese edwardsii (Common Indian mongoose), Presbytes enteculus (Common Indian langur), Bosephalles tagocamelus (Neelgai), Axis axis (Chital), Cervus unicolor (Sambar), Sus Scorfa (Wild Boar), Panthera pardus (Leopard), etc.

BIRDS: Common kingfisher, White throated kingfisher, Asian Koyal, Grey hornbill, Spotted dove, Serpent eagle, Buzzard, Kite, Peacock

REPTILES: Calote versicolor (Garden lizard), Veranus monitor (Monitor lizard), Ptyas nucusus (Rat snake), etc.

AMPHIBIANS: Rana tigrina (Frog), Bufo bufo (Toad).

MOLLUSCA: Achantina fulica (Gaint African snail).

OTHER LOWER PHYLLUM FAUNA: Spider, Yellow spider, Crab spider, Long tailed celler spider, Hipposa spider, Skimmer colour winged dragonfly , Desert locust, Cricket.

1.j. Climate: Summer is hot and dry. The maximum temperature in summer goes up to 46.8° Celsius. While in winter the minimum temperature goes down to 6.6° Celsius.

1.k. Rainfall: The rain fall is received from the south-easterly monsoon, from mid- June to October. Average annual rainfall of this region is approximately 1064.10 mm. The number of rainy days vary from 45 to 65 days.

1.l. Season: Three distinct seasons are observed, i.e. summer season, rainy season and winter season.

1.m. Approach: The site is about 10 kilo meter. away from Zero Mile Stone at Nagpur and it is situated on State Highway No. 248 connecting Nagpur to Katol.

1.n. Demography of Surrounding Area: As per the information of Nagpur District, the demographic information of Nagpur district for 2011 census is as follows:

Total population of Nagpur district is 46,53,171.

Area of Nagpur district is 9,892 km².

Density of population is 470 person per km².

Number of villages in Nagpur district is 1,874.

The project site is bounded by forests on eastern and southern side, while boundary of Fetri village is on western side and boundary of Mahurzari village on North side.

1.o. Legal Status of the Land: The selected site is forest land handed over to Forest Development Corporation of Maharashtra Limited, Nagpur for establishing International Standard Zoo & Rescue Centre. The area is part of forest area notified as forest as intended to be reserved forest under section 4 of Indian Forest Act, 1927 and 27.93 ha as protected forest under section 30 of Indian Forest act, 1927.

The project area is bounded by longitude and latitude as below:

N 21⁰ 10':00", E 79⁰ 00':00".

N 21⁰ 13':00", E 79⁰ 00':00".

N 21⁰ 10':00", E 79⁰ 03':00".

N 21⁰ 13':00", E 79⁰ 03':00".

1.p. Sources of Pollution: The site is away from Nagpur and selected strategically. Water pollution is negligible as there are no streams or nallas carrying sewage water from the nearby villages. Industrial zone is also not in the vicinity; therefore the site is almost free from air and water pollution.

CHAPTER-II

2. Appraisal of the present arrangement and constraints

2.a. Animal section: Not Applicable. Because the Rescue Centre is proposed for the first time.

2.b. Animal collection plan (existing): As the Rescue Centre's objective is to treat and rehabilitate the rescued animals from the forest or wild and inmates of Zoo at Gorewada, there is no collection plan for animals as such. Also it established first time, no existing animals are there.

2.c. General Rescue Centre administration section: Gorewada Rescue Centre is being established first time, there is no existing administration. It is envisaged to be run by FDCM Ltd until SPV is formed. After formation of SPV, the administration, monitoring and management including maintenance will be the responsibility of SPV.

2.d. Research: MAFSU, Nagpur will conduct research activities in collaboration of FDCM Ltd under guidelines stipulated by Central Zoo Authority of India.

2.e. Conservation breeding: Conservation breeding works will be carried out in the collaboration of FDCM Ltd and MAFSU, Nagpur as per the guidelines stipulated by CZA and other competent authorities in this regards.

2.f. Education and awareness: Gorewada Rescue Centre will be ideal place for imparting wildlife education even to educate budding veterinarians of MAFSU, Nagpur and produce dedicated wildlife experts. It will cater massive awareness for the cause of conservation and breeding of wildlife. It will render its important role in mitigation of man animal conflicts persisting in the tract.

2.g. Any other activity peculiar/unique to the Zoo and Rescue Centre: Gorewada Rescue Centre will be unique in the field of wildlife education and research activities as it is going to take the services of MAFSU, Nagpur in this regard. Where MAFSU, Nagpur is going to be benefitted by handling wildlife in real time and Wildlife will be benefitted in due course as established protocol of treatment will immensely serve the cause of wildlife conservation in future.

PART- II

CHAPTER- III

3. Future Objectives including vision, mission statement/ theme and strategy:

3.a. Vision of the Gorewada Rescue Centre: Government of the Maharashtra vide its Government Resolution No. WLP-1009/C.R. 119/F-1 dated 29th November, 2011 had taken decision for establishing International Standard Zoo at Gorewada, Tq-District- Nagpur. The broad vision of Rescue Centre : To provide veterinary care to sick, rescued and infirm wild animals. Also with the collaboration of MAFSU and under guidelines of CZA to have conservation and breeding programme of endangered and the wild animals which are extinct in the region, and to rehabilitate them to their natural habitat.

3.b. Mission of the Gorewada Rescue Centre: The Government of Maharashtra with its Government Resolution dated 29th November, 2011 had clearly taken decision to have wildlife conservation and their rehabilitation on large scale involving public private partnership (PPP) mode of financing with Government stake of 51%. It has also taken decision to involve local University in the field of wildlife conservation and awareness and conducting research in the field of Wildlife. Forest Development Corporation of Maharashtra Limited, Nagpur (FDCM Ltd) a Government of Maharashtra owned company had been given the task of establishing the Zoo and Rescue Centre on 2014 ha forest and 25.57 ha non forest land at Gorewada, Nagpur. Maharashtra Animal and Fisheries Sciences University, Nagpur (MAFSU) is collaborating FDCM Ltd in providing veterinary care to wild-animals treatment and undertaking education and research activities in the field of wild animals.

3.c. Strategy of the Gorewada Rescue Centre: As discussed above, the Rescue Centre which would be part of International Standard Zoo at Gorewada, has been constructed with the help of Grant received from Government of Maharashtra. The operations and execution of Rescue Centre will be carried out with the veterinary support from MAFSU, Nagpur and Grant received from Government of Maharashtra until the Special Purpose Vehicle (SPV) of FDCM Ltd and Joint Venture Partner comes into existence. After that monitoring and maintenance of Rescue Centre will be responsibility of SPV.

CHAPTER- IV

4. Future Action Plan:

4.1. Future Planning: The future planning Gorewada Rescue Center encompasses the management of the Rescue Centre at Gorewada for period of 10 years from 2014-2016 to 2024-2025. The management is based on requirements of wild animals received by the Rescue Centre, the wild animals to be rescued by the rescue team, availability of water and electricity, vegetation, climatic conditions and available resources. While preparing future plan, guidelines of CZA have been taken into consideration in the formulation of this action plan. The detailed management plan has been prepared keeping in the view of strategy to achieve the objectives of Rescue Centre.

4.2. Animal Collection Plan: Gorewada Rescue Centre is establishing first time, it has no existing animals. It is established with objectives to treat injured, diseased/sick animals of Gorewada Zoo and also provide treatment to rescued / orphan animals from forests of the tract and rehabilitate them to their respective habitat as far as possible and conduct conservation breeding and research of endangered species with the help of University (MAFSU), it has no specific collection plan. Central Zoo Authority of India has approved various enclosures and **their designs** for proposed species to be rescued/ treated/rehabilitated at Gorewada vide its order dated 19.11.2013 (**Annexure-V**) & 09.01.2014 (**Annexure-VI**). Accordingly, maximum number of animals can be housed at time at Gorewada Rescue Centre is given below:

Sr. No.	Species	Number of Enclosures	Maximum number of animals to be housed
1.	Tiger (<u>Panthera tigris</u>)	2	10
2.	Panther (<u>Panthera pardus</u>)	4	20
3.	Sloth Bear (<u>Melursus ursinus</u>)	1	05
4.	Deer / Antelope	2	60
5.	Small mammals (jackal, hyena, wolf, wild dog)	1	10
6.	Monkeys and Langurs	1	05
7.	Birds (Aviary).	1	100
8.	Reptiles:		
8.a.	Non Poisonous Snakes :	2	As per availability

4.3.6. Power Station: To meet the uninterrupted supply of power to this Rescue Centre an independent dedicated power station (Transformer) has been set up. It has been connected to all infrastructures and street light.

4.3.7. Water Supply Tank: To meet the water requirement of the project in consideration, a water supply tank has been set up. It draws water from ground and equipped with electric driven pumps of adequate power. It has a big sump as well as over head tank which is more than sufficient to meet the water requirement of all structures and facilities.

4.3.8. Road Network: All structures and enclosures have been connected with all weather black top roads.

4.3.9. Drainage & Sewage System: All structures including enclosures are connected to proper drain collection centres which are having bio-digester facilities. Drainage to rain water is well created along with road.

4.3.10. Boundary Wall: Entire Forest of Gorewada Zoo & Rescue Centre is bounded by 2 meter (+) high R.C.C. Pillar and brick wall. Gorewada Rescue Centre is also bounded by R.C.C. Pillars and brick wall externally and internally to make it distinct.

4.4. Description of Layouts Map & Designs of Enclosures:

4.4.1. Layout Map: Layout map has been drawn on 1:2000 scale with contour interval of 0.5 m. **Layout Map of Gorewada Zoo and Rescue Centre, duly sanctioned by Central Zoo Authority of India (CZA) dated 27-05-2015 is attached as Annexure No. III-b.**

4.4.2. Enclosures Designs: Enclosures designs for various animals have been duly approved and signed by competent authorities including Member Secretary, CZA dated 19-11-2013 (Annexure-V), 09-01-2014 (Annexure-VI).

4.4.2.1. Tiger (Panthera tigris) Enclosures: Forests of Central India are ideal habitats for Tiger and as per latest report issued by Ministry of Environment, Forest and Climate Change (MOEFCC), Government of India, number of tiger in Maharashtra is around 190. Breeding of tiger is adequate and often man- animal (Tiger/Leopard) conflict is reported in Maharashtra. Sometimes tiger and its cubs are stranded to human habitation and even get injuries. They are rescued but due to inadequacy of Rescue Centre no proper treatment/attention is given to them leading their annihilation or their permanent deformity. It is matter of great concern. That is why this Gorewada Rescue Centre is established. CZA has approved designs for two tiger/lion enclosures vide its order dated 19.11.2013. The description of enclosures is as below:

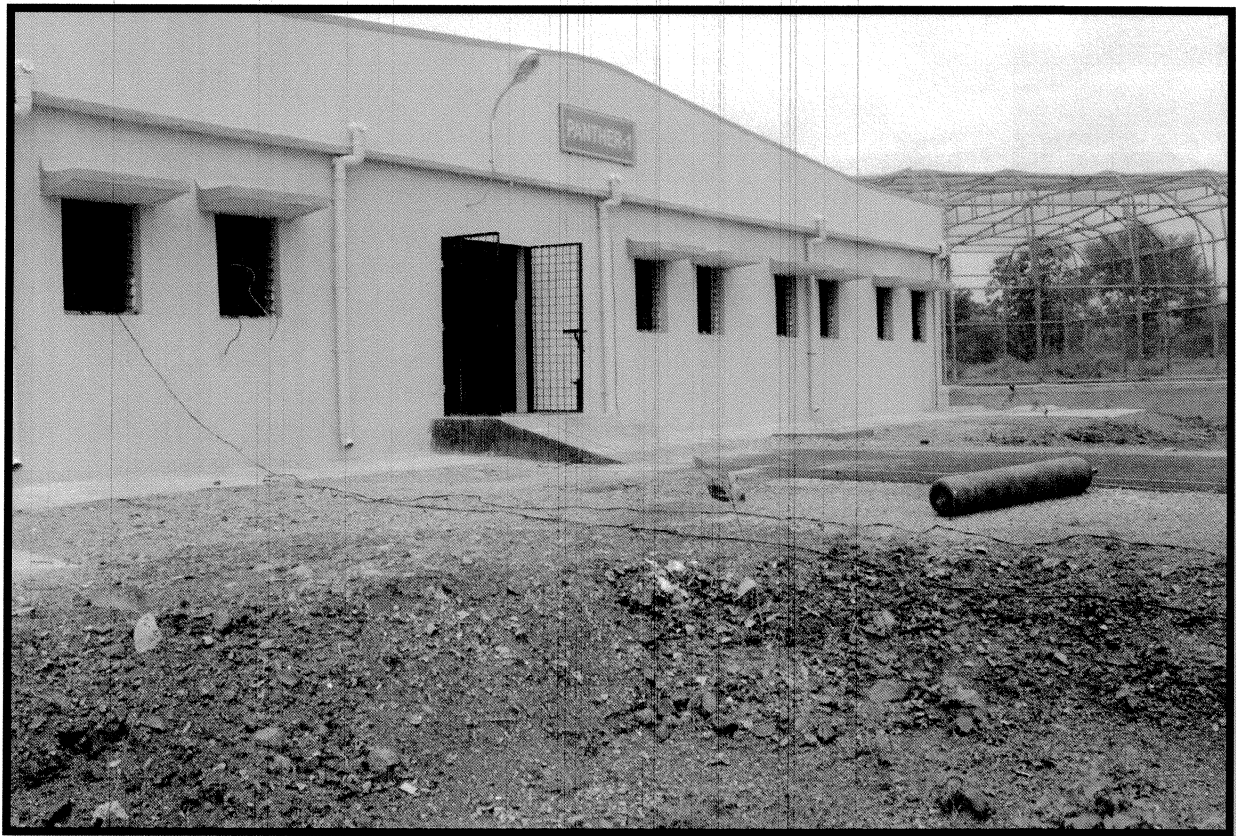
Number tiger enclosures: 2. (Two).

Number of Kraals in each enclosure: 5 (Five).

Number of Treatment Cell in each enclosure: 1(one).

Number of Feeding cubical/retiring room in each enclosure: 5 (Five).

Size of each Kraal: Created 200 m². Kraal area covered with wire-mesh.



Height of Kraal: 4 meter.

Size of each cubicle including treatment cell: 4m x 4.5m. **Size: 18 m².**

Design of Tiger/Lion Enclosure duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. VII- a and VII- b.**

The Lobby of enclosure is equipped with 1 (one) attendant cabin, water pipe to provide water for pressure cleaning, wel-drained outlet connected to drain collection chamber with bio-digester. Each rest room, treatment cell and kraal doors are fitted to be operated with mechanized pulleys with gear to control opening and closing working efficiently. Each kraal is enriched with wood logs, water tray, mound and periphery surrounded with existing trees and supplemented with plantation of trees species to provide comforts like water, shadow etc.

4.4.2.2. Panther (Panthera pardus) Enclosures: Forests of Central India are ideal habitats for Panther (Leopard). Breeding of panther is adequate and often man animal (Panther) conflict is reported in Maharashtra. Sometimes panther and its cubs are stranded to human habitation and even get injuries. They are rescued but due to inadequacy of Rescue Centre no proper treatment/attention is given to them leading their annihilation or their permanent deformity. It is matter of great concern. That is why this Gorewada Rescue Centre is established. CZA has approved layout plan for four panther enclosures vide its order dated 19.11.2013. The description of enclosures is as below:

Number panther enclosures: 4. (Four).

Number of Kraals in each enclosure: 5 (Five).

Number of Treatment Cell in each enclosure: 1(one). Planned: 16 m². Actual 18 m²

Number of Feeding cubical/retiring room in each enclosure: 5 (Five). Planned:14m².
Actua:18 m²

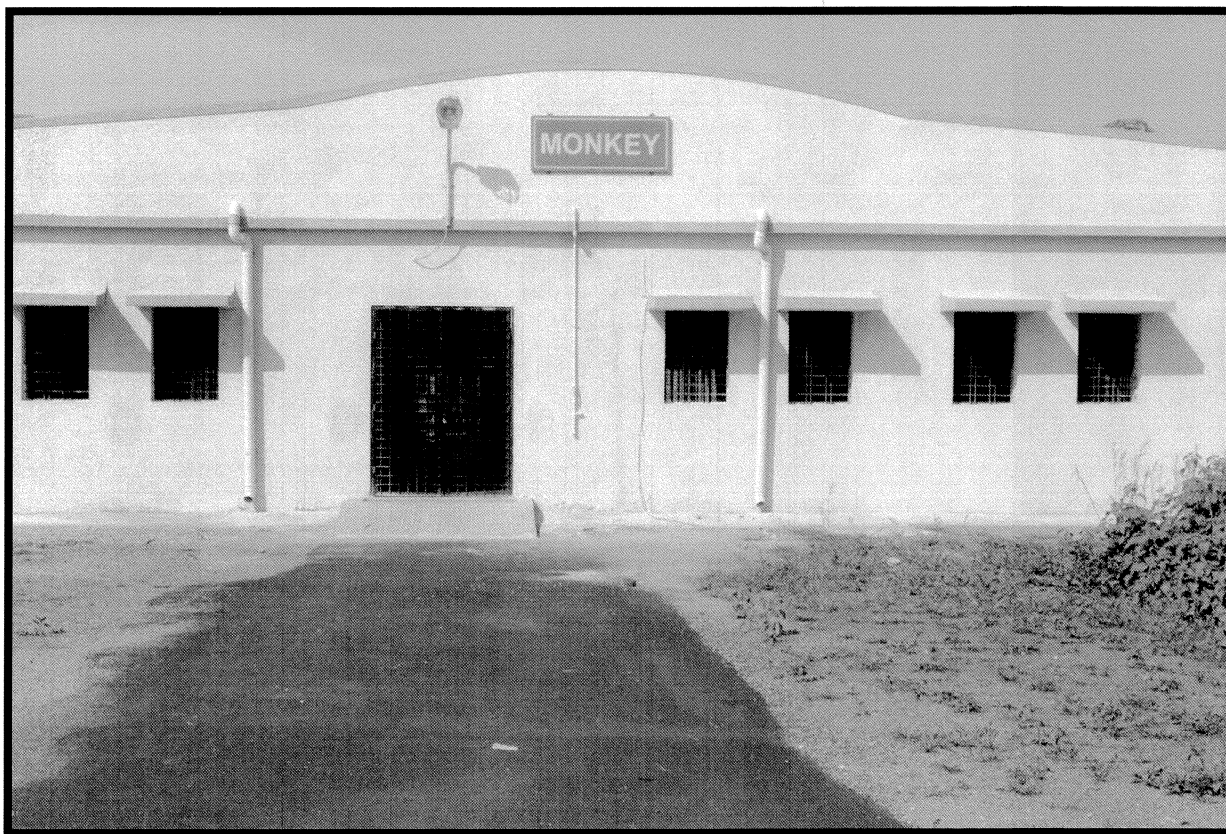
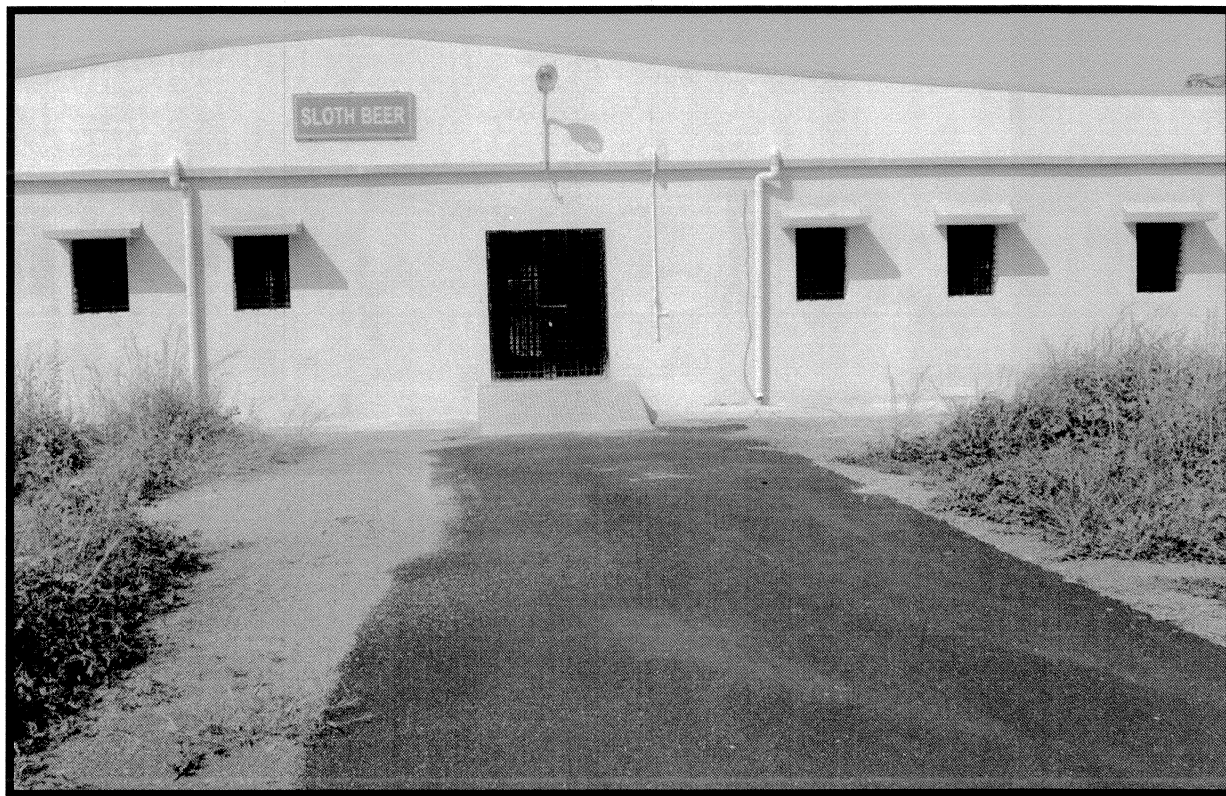
Size of each Kraal: Created 250 m². Kraal area covered with wire-mesh.

Height of Kraal: 4 meter.

Size of each cubicle: 3.5m x 4m; Treatment Cell: 4m x 4m.

Design of Panther Enclosure duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. VIII- a and VIII- b.**

The Lobby of enclosure is equipped with 1 (one) attendant cabin, water pipe to provide water for pressure cleaning, wel-drained outlet connected to drain collection chamber with bio-digester. Each rest room, treatment cell and kraal doors are fitted to be operated with mechanized pulleys with gear to control opening and closing working efficiently. Each kraal is enriched with wood logs, water tray, mound and periphery surrounded with existing trees and supplemented with plantation of trees species to provide comforts like water, shadow etc.



4.4.2.3. Sloth Bear (*Melursus ursinus*) Enclosure: Forests of Central India are ideal habitats for Sloth Bear. Sometimes sloth bear and its cubs are stranded to human habitation and even get injuries. They are rescued but due to inadequacy of Rescue Centre no proper treatment/attention is given to them leading their annihilation or their permanent deformity. It is matter of great concern. That is why this Gorewada Rescue Centre is established. CZA has approved design for one sloth bear enclosure vide its order dated 19.11.2013. The description of enclosures is as below:

Number sloth enclosure: 1. (One).

Number of Kraals in the enclosure: 5 (Five).

Number of Treatment Cell in the enclosure: 1(one). **22.6 m²**.

Number of Feeding cubical/retiring room in each enclosure: 5 (Five). **22.6 m²**.

Size of each Kraal: Minimum 100 m².

Height of Kraal: 4 meter.

Size of each cubicle including treatment cell: 4.5m x 5m.

Design of Sloth Bear Enclosure duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. IX-a & IX-b**.

The Lobby of enclosure is equipped with 1 (one) attendant cabin, water pipe to provide water for pressure cleaning, wel-drained outlet connected to drain collection chamber with bio-digester. Each rest room, treatment cell and kraal doors are fitted to be operated with mechanized pulleys with gear to control opening and closing working efficiently. Each kraal is enriched with wood logs, water tray, mound and periphery surrounded with existing trees and supplemented with plantation of trees species to provide comforts like water, shadow etc.

4.4.2.4. Small mammals Enclosure: Forests of Central India are ideal habitats for Small mammals (jackal, hyena, wolf, wild dog etc). Sometimes these animals are stranded to human habitation and even get injuries. They are rescued but due to inadequacy of Rescue Centre no proper treatment/attention is given to them leading their annihilation or their permanent deformity. It is matter of great concern. That is why this Gorewada Rescue Centre is established. CZA has approved layout plan for one small mammal enclosure vide its order dated 19.11.2013. The description of enclosures is as below:

Number of small mammal enclosure: 1. (One).

Number of Kraals in the enclosure: 6 (Six). 100 m².

Number of Treatment Cell in the enclosure: 1(one). 10.50 m².

Number of Feeding cubical/retiring room in the enclosure: 10 (Ten).

Size of each Kraal: Minimum 100 m².



Deer cage

Height of Kraal: 4 meter.

Size of each cubicle: 3m x3m. Treatment Cell: 3.5m x 3m

Design of Small mammal Enclosure duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. XI a & XI b**.

The Lobby of enclosure is equipped with 1 (one) attendant cabin, water pipe to provide water for pressure cleaning, wel-drained outlet connected to drain collection chamber with bio-digester. Each rest room, treatment cell and kraal doors are fitted to be operated with mechanized pulleys with gear to control opening and closing working efficiently. Each kraal is enriched with wood logs, water tray, mound and periphery surrounded with existing trees and supplemented with plantation of trees species to provide comforts like water, shadow etc.

4.4.2.5. Deer and Antelope Enclosure: Forests of Central India are ideal habitats for deer and antelope (Cheetal, Sambhar, Blackbuck, Barking Deer, Chowsingha, Chinkara etc). Sometimes these animals are stranded to human habitation and even get injuries. They are rescued but due to inadequacy of Rescue Centre no proper treatment/attention is given to them leading their annihilation or their permanent deformity. It is matter of great concern. That is why this Gorewada Rescue Centre is established. CZA has approved layout plan for one deer and antelope enclosure vide its order dated 19.11.2013. The description of enclosures is as below:

Number of deer / antelope enclosure: 2. (Two).

Number of Treatment Cell in the enclosure: 3(Three).

Number of Kraals 3 (Nilgai, Cheetal & Sambhar) with each enclosure capacity: 10 (Ten).

Size of each Kraal: Nigai 800 m², Cheetal 1250 m², and Sambhar 800 m²

Height of Kraal: 4 meter.

Size of each cubicle including treatment cell: 5m x 5m

Design of Small mammal Enclosure duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. XII-a & XII- b**.

The Lobby of enclosure is equipped with 1 (one) attendant cabin, water pipe to provide water for pressure cleaning, wel-drained outlet connected to drain collection chamber with bio-digester. Each rest room, treatment cell and kraal doors are fitted to be operated with mechanized pulleys with gear to control opening and closing working efficiently. Each kraal is enriched with wood logs, water tray, mound and periphery surrounded with existing trees and supplemented with plantation of trees species to provide comforts like water, shadow etc. Each species kraal top is opened except the feeding area. Feeding area is separated with



Bird cage



NON POISONOUS SNAKE

barrier and connected with door. Lobby is **connected to feeding area with door. Some existing trees have been left as it in the kraals.**

4.4.2.6. Monkey and Langur Enclosure: Forests of Central India are ideal habitats for monkey and langur (common monkey and Hanuman monkey etc). Sometimes these animals are stranded to human habitation and even get injuries. They are rescued but due to inadequacy of Rescue Centre no proper treatment/attention is given to them leading their annihilation or their permanent deformity. It is matter of great concern. That is why this Gorewada Rescue Centre is established. CZA has approved layout plan for one monkey and langur enclosure vide its order dated 19.11.2013. The description of enclosures is as below:

Number of monkey and langur enclosure: 1. (One).

Number of Kraals in the enclosure: 5 (Five).

Number of Treatment Cell in the enclosure: 1(one). 3.5m x 3.5m

Number of Feeding cubical/retiring room in each enclosure: 5 (Five). 10.5m².

Size of each Kraal: Minimum 100 m².

Height of Kraal: 4 meter.

Size of each cubicle: 3m x 3.5m.

Design of Monkey and Langur Enclosure duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. X-a & X-b.**

The Lobby of enclosure is equipped with 1 (one) attendant cabin, water pipe to provide water for pressure cleaning, wel-drained outlet connected to drain collection chamber with bio-digester. Each rest room, treatment cell and kraal doors are fitted to be operated with mechanized pulleys with gear to control opening and closing working efficiently. Each kraal is enriched with wood logs, water tray, mound and periphery surrounded with existing trees and supplemented with plantation of trees species to provide comforts like water, shadow etc.

4.4.2.7. Birds / Aviary Enclosure: Forests of Central India are ideal habitats for large number of birds and avi fauna. Sometimes these birds are stranded and even get injuries. They are rescued but due to inadequacy of Rescue Centre no proper treatment/attention is given to them. Birds lover are disappointed due to such plight of birds. That is why this Gorewada Rescue Centre is established. CZA has approved design for one bird /aviary enclosure vide its order dated 09-01-2014. The description of enclosures is as below:

Number of bird / aviary enclosure: 1. (One).

Number of birds that can accommodated: 100.

Size of Kraal: 300 m² with 3 partitions.



Design of Birds / Aviary Enclosure duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. XIII**.

4.4.2.8. Snake Enclosures: Forests of Central India are ideal habitats for large number of snakes both poisonous as well as non poisonous in entire tract including villages and cities. Sometimes these snakes intrude into human habitation and are caught and sometimes snake charmers are found with these snakes. They are rescued and released into their habitats. But sometimes they are found not fit enough to be released into nature. They also are need proper treatment and veterinary care. Snake lovers have concerns about their rehabilitation after proper care. That is why at Gorewada Rescue Centre two non poisonous one poisonous snake enclosures have been created. CZA has approved layout plan for two enclosures for non poisonous snakes and one enclosure for poisonous snakes vide its order dated 09-01-2014.

Design of Snake Enclosures duly sanctioned by Central Zoo Authority of India (CZA) is attached as **Annexure No. XIVa and XIVb**.

4.4.3. Director arrow on the layout plan e.g. North/South direction: Director arrow on each layout plan has been shown properly.

4.4.3. Legend on layout plan: Proper legend on layout plan have been shown indicating all necessary features like:

- a. water bodies, forest patches, natural drainage, water channel etc.
- b. Visitors and service circulation.
- c. Other amenities.
- d. site for disposal of carcass.
- e. Separate map showing electricity supply line. (**Annexure No. XV**) .
- f. Separate map showing water distribution. (**Annexure No. XVI**) .
- g. Separate map showing sewage line. (**Annexure No. XVII**) .
- h. Layout plan clearly show various roads and paths, parking sites, gates, administrative building, veterinary hospital, residential quarters and other features of surroundings.
- i. Layout plan also follows colour code.

4.5. Service: The Rescue Centre Gorewada provides services for its operation and maintenance in the following way:

4.5.1. Supply of Feed and Essential Items: Essential feed for all animals in the rescue centre are to supplied as routine basis as per the advice of veterinarian. Meat shall be obtained from a reputed butcher. Grass shall be stored in a storage shed.



Buffer area

4.5.1.1. Feed Supply: For the carnivores, the meat will be procured from the Abattoirs authorized by Nagpur Municipal Corporation. The following abattoirs are located in the jurisdiction of Nagpur Municipal Corporation:

(i) **Bhandewadi** : Capacity 150-200 no. of buffalo / day.

(ii) **Boriyapura** : Capacity 150-200 no. of Goats / day.

(iii) **Gaddigodam** : Capacity 50 no. of Goats / day.

4.5.1.2. Feed Supply: For Reptiles and Snakes, feed will be made available from the local poultry farm. To the python and rat snakes, mice will made available from the local area. For the cobra / viper, rat snakes will be made available from local area.

4.5.2. Details of feeding plan for carnivore and herbivore etc: is given in the following table:

Sr No.	Animal	Target No.	Average No.	Feeding items	No of days	Forenoon	Afternoon	Total quantity	Rate in Rs.	Total Rs. in lakh
1	Tiger	10	5	Meat	365	0	10kg/day	18250kg	400	73.00
2	Panther	20	10	Milk	365	0.5 lit/day		1825 lit	40	0.73
				Beef	365		5kg/day	18250 kg	200	36.50
3	Small mammal (Jackal and hyena)	10	5	Beef	365		2 kg	3650 kg	200	7.30
	Total									117.53
4	Sloth bear	5	02	Bread	365	250 gm/day	250 gm/day	365 kg	100	0.37
				Banana	365	1 No.		730 No.	3	0.02
				Milk	365	0.5 lit/day	0.5 lit	730 lit	40	0.29
				Tomato	365	100 gm/day		73 kg	20	0.01
				Carrots	365	250 gm/day		182.5 kg	50	0.09
				Sweet lime	365	1 No.		730 No.	10	0.07
				Guava	365	100 gm/day		73 kg	50	0.04
				Honey	365	50 gm/day		36.5 kg	400	0.15
5	Deer	20	10	Cattle feed	365	500 gm/day		1825 kg	100	1.83
				Para grass	365	5 kg		18250 kg	10	1.83
				Green grass	365					
6	Monkeys and langurs	10	5	Bengal gram	365	75 gm		137 kg	50	0.07

				Apple	365	0.5 No.	0.5 No.	1825 No.	15	0.27
				Banana	365	2 No.	2 No.	7300 No.	3	0.22
				Carrots	365	50 gm/day		91.25 kg	50	0.05
				Cabbage	365	25 gm/day		46 kg	25	0.01
				Sweet lime	365	1 No.		1825 No.	10	0.18
				Palak	365	50 gm/day		91.25 kg	25	0.02
				Bread	365		3	5475 slices	2	0.11
				Total						5.62
7	Birds	100								
	1.Parakeets	50	50	Poultry feed	365	50 gm/day	-	912.5 kg.	100	0.91
	2.Perching birds	20	20	Palak	365	50 gm/day	-	365 kg	25	0.09
	3.Birds of prey	20	20	Beef	365	100 gm/day	-	730 kg	200	1.46
	4.Aquatic birds	10	10	Fish	365	300 gm/day	-	1095 kg.	150	1.64
	Total									4.11
8	Python	2	2	1Chicken/Week	52 weeks			100 Chickens	200	0.20
	Cobra/Rat snake/Viper	4	4	1 mouse or Frog /Week	52 weeks			200 mice/Frog	20	0.04
	Total									0.24
	A+B+C+D =Total									127.50

*Feeding schedule from Maharajbag Zoo, Nagpur and Nehru Zoological Park, Hyderabad.

*The food for the carnivores is proposed to be procured from the local certified butcher houses (abattoirs).

For uninterrupted supply of feed to animals, a network of roads have been created joining to various enclosures and store house etc.

4.5.3.1. Solid Waste Disposal: The solid waste of the rescue centre will consist of following materials: (i) Leftover food, (ii) Faecal matter, (iii) Fallen leaves, (iv) Grasses, (v) Visitors/operators left over, (vi) Office waste, (vii) Hospital waste etc.

These waste are to be separated as bio degradable and non bio-degradable. Bio degradable waste will be used as making manure and used for fodder development. Non bio degradable waste will be disposed off by outsourcing agency at the authorised Municipal Corporation site at regular interval.

4.5.3.2. Liquid Waste Disposal: All structures are connected to controlled treatment tanks.

These treatment tank will treat the waste water and spill over water will drain to to drainage

line which are to drain to Vantali dig up for storage of water which will be used for grass production.

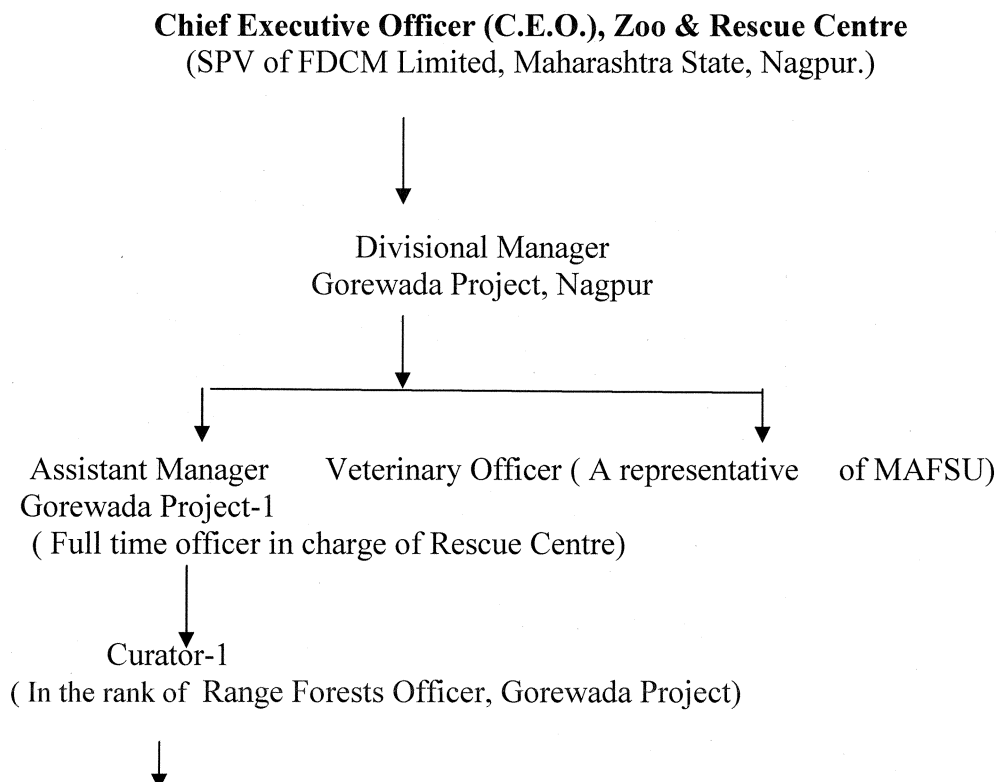
CHAPTER – V

5. Personnel planning:

5.a. The state government of Maharashtra has assigned the task of establishing International Standard Zoo and Rescue Centre at Gorewada to Forest Development Corporation of Maharashtra (FDCM) Limited, Nagpur, a wholly owned state enterprise. FDCM Ltd. had also been authorized to form SPV (Special Purpose Vehicle) of FDCM Ltd. and Joint Venture Partner with government stake at 51%. As per CZA's approval to Rescue Centre at Gorewada dated 28/29.08.2012, the forest department of Maharashtra through Forest Development Corporation of Maharashtra (FDCM) Limited, had given its undertaking to post requisite number of experts of various disciplines including a competent officer-in-charge, animal curator, biologists, veterinary officers. (**Annexure No.– XVIII**).

For veterinary services, an MOU (Memorandum of Understanding) between FDCM Ltd. and Maharashtra Animal and Fishery Sciences University (MAFSU), Nagpur had been signed (**Annexure No.-XIX**) Accordingly, MAFSU will provide veterinary support to Zoo and Rescue Centre. MAFSU will use Rescue Centre complex as Wildlife Conservation, Research and Training Centre.

The flow chart of administrative setup proposed is as follows:



Head Zoo Keepers- 2
(In the rank of Forester)



Zoo Keepers-24
(In the rank of Van Majoor or on Contract Basis)

The administrative setup will be as follows:

Chief Executive Officer (CEO): CEO will be responsible for overall staffing and maintenance of rescue centre including zoo. He will be appointed by SPV and terms and conditions will be as per rules and bye-laws.

Divisional Manager: Divisional Manager will be over all Manager of Rescue Centre wing of Zoo and Rescue Centre and administrative part of Zoo section. He will be an eminent person having working experience in field of forestry and wildlife. His salary and other allowance will be decided by SPV.

Assistant Manager: The full time officer in-charge of the Rescue Centre will be the Assistant Manager (An officer in the rank of Assistant Conservator of Forests). He will be responsible for the smooth functioning of the Rescue Centre, proper housekeeping and healthcare of the animals and proper management. He will be responsible for assigning duties to the personnel, as per the directions given by the in-charge of Rescue Centre.

Curator: An officer in the rank of Range Forest officer will be curator of the Rescue Center. The curator will be responsible for the up-keep and maintenance of animal housing, including timely cleaning and disinfection of animals enclosure cubicles, timely feeding of animals as per prescribed schedule and manner, keeping a close watch on the general health of the animals and taking measures for treatment of sick animals on the priority, including shifting and transportation within the rescue centre.

Veterinary Officer: Veterinary of with minimum qualification of Master in Veterinary Science and Animal Husbandry (MVSc). He will be provided by MAFSU as per MOU. The veterinarian will visit daily to animal enclosures for assessing general health condition of the animals. He will check the quality of the feed supplied to animals. He will assess the quality of feed and schedule of feeding to the animals and timely screening of animals for parasitic loads. He will prepare the disinfection schedules, prophylactic treatment schedules and ensure the implementation. He will take steps for timely restraining and treatment of sick animals. He will maintain the record of treatment given to sick animals. He will conduct the post-mortem of animals died at Rescue Centre and draw conclusion

regarding the reasons of death and strategies to minimize the death rate. He will be responsible for the supervision the process of shifting and transportation the animals.

Education Officer: An officer in the rank of Range Forest officer will be education officer of the Rescue Center. He will be responsible for undertaking educational activities like conducting awareness for wildlife, research programme etc. As the Rescue Centre is part of Gorewada Zoo and Rescue Centre, Education Officer of Zoo will look after the task assigned to him.

Biologist: As the Rescue Centre is part of Gorewada Zoo and Rescue Centre, Biologist of Zoo will look after the task assigned to him.

Head Zoo Keeper: Staff in the rank of Foresters will work as Head Zoo Keepers as manned by SPV. Educational qualification for forester is that he should be 10+2 or equivalent in science stream and minimum 50% marks.

Zoo Keepers: Forest Labour (Van Major) or labour on contract will work as zoo keepers as manned by SPV.

Head Zoo Keepers and Zoo Keepers will work as the supporting staff to the curators and veterinarian. The Head/Zoo Keepers are responsible for the feeding of animals, cleaning of enclosures. They will assist during treatment of animals, shifting and transportation of animals, watch and ward, etc.

In the absence of the in-charge of Rescue Centre, all duties will be performed by the Curator. In the absences of the Curator, the duties of the Curator (Range Forest Officers) will be performed by the Head Zoo Keeper (Forester). In case absence Head Zoo Keeper, the designated Zoo Keeper will perform the duties of Head Zoo Keeper.

Other supporting staff:

(1). Drivers: To run the vehicles for Divisional Manager, Assistant Manager and Rescue Van services of 3 drivers will be taken by SPV.

(2). Accountant: To prepare the account and run official business, services of 1 accountant is required. It will be manned by SPV.

(3). Peon: To keep the official business, services of 3 peons will be taken. It will be manned by SPV.

(4). Laboratory Assistant: Services of Laboratory Assistant will be provided by MAFSU, Nagpur for veterinary support.

(5). Stockman/Compounder: One of Zoo Keeper will be designated as Stockman for maintaining the medicines and store as required by MAFSU for veterinary support.

Till the FDCM Ltd forms its SPV along with its Joint Venture Partner under PPP mode of

financing, Rescue Centre will be managed by FDCM Ltd as per Government of Maharashtra Resolution, dated 29th November, 2011. After formation of SPV, the Rescue Centre at Gorewada will be managed by Special Purpose Vehicle (SPV) of FDCM Ltd. through its CEO (of SPV).

5.b. Existing Staff : Not applicable. The Rescue Centre has been established for the first time at Gorewada , Nagpur .

5.c Staff for the Management of Rescue Centre : The following staff are proposed for the management of the Rescue Centre and Gorewada Reserve:

Sr. no.	Name of Post	No. of posts proposed	Pay scale	Salary & Allowance for one year
1.	Divisional Manager	1	15600-39100 G.P. 6600	9.76
2.	Assistant Manager	1	9300-34800 G.P. 5000	8.12
3.	Veterinary Officer	1	9300-34800 G.P. 5000	8.23
4.	Curator	1	9300-34800 G.P. 4400	7.99
4	Head Zoo Keeper	2	5200-20200 G.P. 2400	9.19
5.	Zoo Keepers	24	4440-7440 G.P. 1300	52.75
6	Accountant	1	5200-20200 G.P. 2800	4.75
7	Driver	3	5200-20200 G.P. 1900	13.89
8	Peon	3	4440-7440 G.P. 1300	6.81
	Total	37		121.49

5.d. Services of Compounder and other maintenance staff like Welder, Mason, Carpenter, Electrician, Plumber, etc, will be outsourced as per the necessity as the city of Nagpur is quite nearer to Rescue Centre site.

CHAPTER-VI

DISASTER MANAGEMENT

6a. Fire control: Each building and enclosure has been provided with fire extinguisher, water storage facilities, apart from regular cutting of fire lines around the building and enclosures.

6b. Flood: The site is elevated place and no big nallah or streams are flowing adjoining to this site, hence there is no threat from the floods.

6c. Cyclone Situations- For the past several years, no incidence of cyclone has been noticed in this region.

6d. Law and order break down –Violation of the law and order situations may hamper the transport of meat, therefore, cold storage facility has been provided to store meat as buffer stock. Also store house is there to store fodder to meet the requirement in case of emergency/contingency.

CHAPTER-VII

CONTINGENCY PLAN

7.1. Animal Rescued from Wild: In order to rescue any animal from wild to Gorewada Rescue Centre, there will be a Rescue Van well equipped with tranquilizers, trap cages and other necessary appliances and equipments used for the medical treatment and transport of animals. There will be a dedicated rescue team equipped with such facilities and specially trained team of Forest Labour, Forester, Veterinary personnel from MAFSU and volunteers.

7.2. Escape of animals from Enclosures: The perimeter wall of 2 meter height is provided outside the rescue centre to prevent any such incidences. The staff provided for the rescue centre will be trained for such situations.

7.3. Monkey and Dog Menace: Close vigil will be exercised to prevent Monkeys and dogs entering the Rescue Centre.

7.4. Arrangement of Food in case of strike : The meat is available in plenty in local market of Nagpur. In case of non-supply of food, storage facility has been provided as an alternative arrangement for feeding animals.

7.5. Snake bite: The field staff will be trained to catch the snakes spotted inside the Rescue Centre. As a prevention measure, anti-venom serum shall be stored.

7.6. Visitor getting injured: Visitors are not allowed in Rescue Centre as visitors. Enclosures are properly fenced with wire-mess and outer side is also cordoned off to ward off animals not to come close to outsiders.

7.7. Fighting among animals: Carnivores will not be kept in a group in a single enclosure. Even in herbivore enclosures, fighting individuals will be kept away.

7.8. Epidemics: The rescued animals will be isolated for some time and then moved into enclosure. The rescued animal will be provided with all necessary medication to prevent diseases.

7.9 Break Down of Power Supply: In case of longer break-down in power supply, the generator of capacity 18KV is proposed for the Rescue Centre.

CHAPTER-VIII

8. CAPACITY BUILDING

8.1 Staff provided for the Rescue Centre have been imparted training from time to time for handling of rescued animals at Maharajbag Zoo at Nagpur and also visits to other established Rescue Centre shall be organized. The following types of training programmes have been broadly identified.

- A. Tranquillizing the animal
- B. Transportation of animal from field
- C. Vaccination
- D. Feeding & Nutrition
- E. Record Keeping
- F. Photography & Videography
- G. Hygiene of Animals

CHAPTER-IX

9.E-Governance:

9.1. All records pertaining to every wild animal shall be kept in the computer and closely monitored. The enclosures will be provided with close circuit TV equipment to record the movement and behavior of the animals. The CCTVs will be installed after the functioning of the Rescue Centre.

CHAPTER-X

10. Broad Budget Analysis for Implementing the Plan:

10.1 Gorewada Rescue Centre has been established for the first time to meet the requirement of wild animals of the tract and Zoo inmates. For this necessary approval of competent authority, Central Zoo Authority of India and Hon'ble Supreme Court of India and State Government of Maharashtra have been taken accordingly. It involves construction of different enclosures and infrastructures as approved by competent authorities as per CZA guidelines.

To run the Rescue Centre on day to day basis, expenditures of non- recurring and recurring are involved. It is discussed as follows:

10.2. Non Recurring Expenditures:

10.2.1. Construction of Enclosures and Infrastructure Development: The construction of various enclosures, administrative buildings, animal hospital, residential quarters and other required structures and infrastructure had been constructed as per sanctioned layout designs from CZA and Government of Maharashtra. Detailed estimate was prepared by FDCM Ltd through Public Works Department as per approved layout plan/design by CZA. The technical sanction was provided by PWD and for the administrative sanction, the estimate was put up before High Power Committee under chairmanship of Chief Secretary, Maharashtra State as per Government of Maharashtra Resolution dated 29/11/2011. High Power Committee, on its deliberation approved the estimate and accordingly Government of Maharashtra gave its administrative sanction wide its G.R. dated 03.06.2013 for Rs 26,95,25,500 (Rs Twenty Six Crore Ninety Five Lacs, Twenty Five Thousand & Five Hundred) only. Accordingly, Government of Maharashtra had provided grants from time to time and the work had been executed by FDCM Ltd through PWD by following standard operative practices of State of Maharashtra. The construction of following items and other related works are included in G.R. dated 03.06.2013:

Amount of administrative sanction : Rs. 26,95,25,500/-

Items included are:

- i. Administrative Block including supporting infrastructure.
- ii. Animal Hospital for rescued animals and zoo inmates.
- iii. Residential Quarters (Type & number) :- Type I-4, Type II-2, Type III-2 for residential supportive staff.
- iv. Overhead water tank

- v. Internal roads and drainage system
- vi. Compound wall
- vii. Various Enclosures with effluent treatment structures: Tiger (2), Panther (4), Sloth Bear (1), Small Mammal (1), Deer/Antelope (2), Birds (1), Reptiles (3)
- viii. Sump well, pump house, pipe lines, sanitation line etc
- ix. Electrification (Internal and External).
- x. Landscaping and avenue plantation.
- xi. Furniture and Fixtures.
- xii. Transport and squeeze cages

Equipment and Vehicles : Following items have been procured/being procured during 2015-16 from State Government grant after following due process.

Sr. no.	Type of Services	No.of enclosures	No. of cubicles	Rate per unit in lacs	Total Estimated cost Rs. in lakh	Proposed Grants	Year of construction proposed
1	Office Furniture			LS	10.00	10.00	2015-16
2	CCTV Cameras			LS	5.00	5.00	2015
3	Transport & squeeze cages			LS	10.00	10.00	2015
4	Feeding equipments			LS	5.00	5.00	2015
5	Office equipments			LS	24.50	24.50	2015
6	Medical appliances & medicines			LS	13.50	13.50	2015
7	Jeep	2		6.00	12.00	12.00	2015
8	Rescue Van with Equipments	1		20.00	20.00	20.00	2015
	Total				100.00	100.00	

10.2.3. Recurring Expenditure: Salary, Allowances and Maintenance: Till the SPV of FDCM Ltd. comes into operation, salary, allowance and maintenance of Gorewada Rescue Centre would be met by FDCM Ltd through grants received from Government of Maharashtra. With taking 10% rise in salary and allowance expenditure per year and 5% increase yearly in maintenance cost, estimated costs of running the Rescue Centre is projected as follows:

(Rs. in Lakh)

Sr No.	Financial Year	Salary & Allowance	Maintenance	Total
1.	2015-16	121.49	167.20	288.69

2.	2016-17	133.64	175.56	309.20
3.	2017-18	147.00	184.34	331.34
4.	2018-19	161.70	193.55	355.25
5.	2019-20	177.87	203.23	381.10
6.	2020-21	195.66	213.39	409.05
7.	2021-22	215.23	224.06	439.29
8.	2022-23	235.75	235.27	471.02
9.	2023-24	260.42	247.03	507.45
10	2024-25	286.47	259.38	545.85

Where, Staff salaries and allowances details have been taken as shown in the paragraph 5.c.:
Personnel Planning and maintenance cost has been estimated as follows:

Sr. No.	Type of Services	Year : 2015-16 (Rs in Lakh)
1	Electricity	6.00
2	Telephone	1.20
3	Medicines	13.50
4	Transportation of animals	2.00
5	Water supply & maintenance	6.00
6	Maintenance of wildlife kits	1.00
7	Maintenance of sanitation system	2.00
8	Feeds to Animals/Birds/Reptiles	127.50
9	Maintenance of Roads	2.00
10	Wages for sundry works including stationery, etc.	5.00
11	Maintenance of vehicles	1.00
	Total	167.20

REVENUE: Being a Rescue Centre, no revenue will be generated through visitor as visitors are not allowed in the premises. Revenue may be generated by the services offered to wild animals brought from other State. Even Forest Department/FDCM Ltd will be charged for animals they will send to the centre.

PART- III

CHAPTER –XI

11.1. Management Plan (Budget) of Gorewada Rescue Centre: Gorewada Rescue Centre has been established for the first time to cater the need of rescued wild animals from the tract of Maharashtra and adjoining forest area (if services is demanded from outside the Maharashtra State), the need of Zoos and Safaris at Gorewada and also to cater the education and conservation need of Maharashtra Animal and Fisheries Sciences University at Nagpur. As discussed in previous chapters, various enclosures and infrastructures have been created as per the sanctioned outlay plans from CZA and competent authority, the Rescue Centre is ready for its functioning after getting formal approval from CZA.

11.2. Rescue Centre will get its financial support from the FDCM Ltd in the form of its Special Purpose Vehicle (SPV). Till the formation of SPV, FDCM Ltd will run it with the help of financial support from Government and other sources like CAMPA etc.

11.3. Staff and its allowances will be borne by SPV. Veterinary support staff will be from MAFSU, Nagpur. Albeit, till the formation of SPV, supportive staff of management will be as per Government Resolution dated 29-11-2011.

11.4. As discussed in Chapter, X, estimated expenditure for 2015-16 to 2024-25 is as follows:

(Rs. in Lakh)

Sr No.	Financial Year	Salary & Allowance	Maintenance	Total
1.	2015-16	121.49	167.20	288.69
2.	2016-17	133.64	175.56	309.20
3.	2017-18	147.00	184.34	331.34
4.	2018-19	161.70	193.55	355.25
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9.	2023-24	260.42	247.03	507.45
10	2024-25	286.47	259.38	545.85

Where, Staff salaries and allowances details have been taken as shown in the paragraph 5.c.: Personnel Planning and maintenance cost has been estimated as follows:

Sr. No.	Type of Services	Year : 2015-16 (Rs in Lakh)
1	Electricity	6.00
2	Telephone	1.20
3	Medicines	13.50
4	Transportation of animals	2.00
5	Water supply & maintenance	6.00
6	Maintenance of wildlife kits	1.00
7	Maintenance of sanitation system	2.00
8	Feeds to Animals/Birds/Reptiles	127.50
9	Maintenance of Roads	2.00
10	Wages for sundry works including stationery, etc.	5.00
11	Maintenance of vehicles	1.00
	Total	167.20

As already discussed, essential personnel to be deployed for execution of works, their duties have been given in Chapter- V, is reproduced as follows:

Staff for the Management of Rescue Centre : The following staff are proposed for the management of the Rescue Centre and Gorewada Reserve:

Sr. No.	Name of Post	No. of posts proposed
1.	Divisional Manager	1
2.	Assistant Manager	1
3.	Veterinary Officer	1
4.	Curator	1
5.	Head Zoo Keeper	2
6.	Zoo Keepers	24
7.	Accountant	1
8.	Driver	3

9.	Peon	3
	Total	37

Services of Compounder and other maintenance staff like Welder, Mason, Carpenter, Electrician, Plumber, etc, will be outsourced as per the necessity as the city of Nagpur is quite nearer to Rescue Centre site.

11.5. REVENUE: Rescue Centre will not be source of **REVENUE**. It will work for treatment of injured, sick, rescued wild animals from the different area of Maharashtra and inmates of Zoo and Safaris of Gorewada Zoo. If wild animals from adjoining States are brought for treatment then actual expenses will be charged. MAFSU and other organization participating in conservation and research in wild animals anatomy, physiology and behavior will contribute by deployment of Veterinarians and supportive staff and rendering their services in lieu.

11.6. Standard Operative Procedure: Management of Rescue Centre will be mainly of (1) Administrative in nature and (2) Veterinary Care.

11.6.1. Administrative Management: Administrative management will be performed by Administrative officials/ staff of SPV (of FDCM Ltd as discussed above), and accordingly, their salaries and allowances will be borne.

11.6.2. Veterinary Care: **Veterinary** care is to be provided by dedicated battery of veterinarians from MAFSU, Nagpur who will provide treatment, and prepare standard protocol for treatment of wild animals. They will also conduct necessary research and allied works in respective field for betterment of wild animals.

11.6.3. Miscellaneous: There are three abattoirs in the city of Nagpur, certified by Nagpur Municipal Corporation to get quality meat to carnivores. The availability of vegetables and fruits are in plenty in and around Nagpur. The procedure is laid down in Bombay Financial Rules and other rules of Government of Maharashtra in case of procurement of material supply shall be adopted.

Environmental enrichment in the Rescue Centre will be enhanced with the plantation of suitable species in the proposed area.

Use of unwanted material like nylon ropes, plastics, tyres, etc. shall be avoided.

Suitable water supply line and water hole have been provided in the enclosures.

Enclosures will be checked daily and be kept neat and clean.

Health of the rescued animals will be checked up daily.

Food of high quality will be provided at the scheduled times in fixed quantities to the rescued animals.

General behavior of the animals will be watched carefully and a record to that effect shall be maintained.

Tranquillizing appliances will be checked daily.

After post-mortem of the animal, the carcass will be disposed off with suitable method.

Snakes, dogs and monkeys shall be prevented to enter the Rescue Centre by providing close vigil.

All necessary measures shall be taken so that no animal gets escaped from enclosures.

All service systems will be checked up periodically.

11.6.4. Maharashtra Animal and Fishery Sciences University, Nagpur (MAFSU):

Gorewada Rescue Centre has the in-house facility to treat variety of wild animals, has a vast scope for wildlife research for the emerging young veterinarians. Maharashtra Animal and Fishery Sciences University (MAFSU), Nagpur has rightly understood the importance of this aspect and came forward to sign Memorandum of Understanding with the Forest Development Corporation of Maharashtra (FDCM) Limited on mutual agreed terms of reference.

Accordingly, a project titled “Wildlife Research and Training Centre” will be implemented by MAFSU at its University campus. Gorewada Rescue Centre will help MAFSU to access the facilities at its premises and MAFSU will help Rescue Centre in providing technical expertise services for health monitoring operations, developing preventive measures for infectious diseases, bio-technological tools for disease diagnostic operations, disease control and disease impact assessment, as well as creating repository for wildlife species identification by DNA isolation and sequencing from biological samples, providing assistance for ex-situ assisted reproduction and for capacity building of field veterinarians, academicians for Veterinary Institutes and FDCM Ltd. in respect of wildlife health monitoring, capture and translocation, wildlife forensics, etc.

A Memorandum of Understanding (MoU) has been signed between Maharashtra Animal and Fishery Sciences University, Nagpur and Forest Development Corporation of Maharashtra Limited on 03.04.2014 at Nagpur. A copy of Memorandum of Understanding is enclosed as **Annexure No. XIX**.

PART- IV

CHAPTER-XII

11. Annexure to the Master Plan: Following are the annexures to this master plan:

Sr. No.	Annexure No.	Items
1.	Annexure No. I a & Ib	Government of Maharashtra G.R. dated 29-11-2011
2.	Annexure No. II	Master Plan: CZA`s approval letter dated 28/29-08-2012
3.	Annexure No. IIIa & IIIb	Approval of Layout Plan from CZA Master Layout Plan of Rescue Centre at Gorewada.
4.	Annexure No. IVa & IVb	IA No. 22/2012 and Supreme Court`s Order dated 05-08-2013.
5.	Annexure No. V	CZA`s approval for Designs dated: 19-11-2013
6.	Annexure No. VI	CZA`s approval for Designs dated: 09-01-2014
7.	Annexure No. VII a & VIIb.	Design and Cross-Sections for Tiger Enclosure.
8.	Annexure No. VIII a & VIIIb	Design and Cross-Sections for Panther Enclosure.
9.	Annexure No. IXa & IX b	Design and Cross-Sections for Sloth Bear Enclosure.
10.	Annexure No. Xa & Xb	Design and Cross-Sections for Monkey Enclosure.
11.	Annexure No. XIa & XIb	Design and Cross-Sections for Small Mammals Enclosure.
12.	Annexure No. XII a & XIIb	Design and Cross-Sections for Deer & Antelope Enclosure.
13.	Annexure No. XIII	Design and Cross-Sections for Birds Enclosure.
14.	Annexure No. XIV a	Design and Cross-Sections for Non Poisonous Snake Enclosure.
15.	Annexure No. X IV b	Design and Cross-Sections for Poisonous Snake Enclosure.

16.	Annexure No. XV	Layout Map for Electricity Line
17.	Annexure No. XVI	Layout Map for Water Distribution Line
18.	Annexure No. XVII	Layout Map for Sewage Line
19.	Annexure No. XVIII	Undertaking by FDCM Ltd
20.	Annexure No. XIX	MOU by FDCM Ltd and MAFSU, Nagpur
21.	Annexure No. XX	Index map of Maharashtra State
22.	Annexure No. XXI	Index map of Nagpur District
23	Annexure No. XXII	Location Map of Rescue Centre, Gorewada
24	Annexure No. . XXIII	Compliance to Shri S K Patnaik and Dr Rommel Mehta on 17/18-04-2015
25	Annexure No. XXIV	Compliance for grant of approval in respect of Rescue Centre Gorewada Dt 14-10-2015

नागपूर जिल्हयातील गोरेवाडा येथे
आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय
स्थापन करण्याबाबत.

महाराष्ट्र शासन
महसूल व वन विभाग

शासन निर्णय क्रमांक : डब्ल्युएलपी-१००९/प्र.क्र.११९/फ-१,
मंत्रालय, मुंबई : ४०० ०३२.
दिनांक : २९ नोव्हेंबर, २०११.

- वाचा :-**
१. शासन निर्णय क्रमांक : डब्ल्युएलपी-१०१९/प्र.क्र.८९/फ-१, दि.१२ डिसेंबर, २००५.
 २. महाराष्ट्र शासन, महसूल व वन विभाग, मंत्रालय, मुंबई शासन निर्णय क्रमांक डब्ल्युएलपी-१००७/प्र.क्र. १४०/फ-१ दिनांक १० ऑगस्ट २००७.
 ३. शासन निर्णय क्रमांक : डब्ल्युएलपी-२००४/प्र.क्र.५२/फ-१, दि.२७ जून, २००८.
 ४. प्रधान मुख्य वनसंरक्षक, (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्ष-२२(६)/यो/गोरेवाडा/३११/२००९-१०, दिनांक १२ मे, २००९
 ५. प्रधान मुख्य वनसंरक्षक, (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्ष-२२(६)/यो/गोरेवाडा/७४९/२००९-१०, दिनांक १८ नोव्हेंबर, २००९
 ६. प्रधान मुख्य वनसंरक्षक, (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्ष-२२(६)/यो/गोरेवाडा/२२९/२००९-१०, दिनांक ५ जून, २०१०.

प्रस्तावना :-

मौजे गोरेवाडा, तालुका नागपूर येथे १०० ते १५० हेक्टर वन क्षेत्रावर आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्यास संदर्भ क्रमांक १ अन्वये शासनाने तत्वतः मान्यता प्रदान केली आहे. संदर्भ क्रमांक २ नुसार प्रस्तावित प्राणीसंग्रहालयाचा बृहत आराखडा तयार करण्यासाठी मे. बर्नाड हॅरीसन अॅन्ड फ्रेंड्स, सिंगापूर यांना सल्लागार म्हणून नेमण्यात आले. त्यानुसार सल्लागार यांनी दिनांक ५ मे, २००९ अन्वये प्राणीसंग्रहालयाचा बृहत आराखडा सादर केला. सदर आराखड्यानुसार गोरेवाडा नागपूर येथे असलेल्या १९१४ हेक्टर वन क्षेत्रावर आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्याचे प्रस्तावित आहे. त्याचप्रमाणे दुर्मिळ तसेच राज्यातील या भागातून विलुप्त झालेल्या प्राण्यांचे प्रजनन करून त्यांच्या नैसर्गिक अधिवासात त्यांचे पुनःस्थापन करणेही प्रस्तावित आहे. सदर प्रकल्प हा नागपूर शहरास लागून असल्याने या प्रकल्पामुळे या भागात निसर्ग पर्यटनास चालना मिळेल व रोजगाराच्या संधी उपलब्ध होतील. सदर पार्श्वभूमीच्या अनुषंगाने मौजे गोरेवाडा, तालुका-जिल्हा नागपूर येथे आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्याची बाब शासनाच्या विचाराधीन होती. या संदर्भात शासनाने खालीलप्रमाणे निर्णय घेतला आहे.

शासन निर्णय :-

- १) राज्यात निसर्ग पर्यटन विकास व वन्यप्राणी संवर्धनाकरीता मौजे गोरेवाडा, तालुका-जिल्हा नागपूर येथे आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्यास परवानगी देण्यात येत आहे. सदर प्रकल्प एफ.डी.सी.एम. लिमिटेड मार्फत राबविण्यात येईल.

२) प्राणिसंग्रहालयाचे प्रमुख उद्देश :-

- (१) आंतरराष्ट्रीय निसर्ग पर्यटनास चालना देणे.
- (२) वन्यजीव संवर्धन (दुर्मिळ झालेल्या प्राण्यांच्या प्रजातींचे शास्त्रोक्त पध्दतीने प्रजनन करणे व नंतर निसर्गात मुक्त करणे).
- (३) वन्यजीव संवर्धनासंबंधी संशोधन व शिक्षण.
- (४) जखमी झालेल्या, आजारी प्राण्यांच्या तसेच परवानगी नसलेल्या जप्त वन्य प्राण्यांचे पुनर्वसन.
- (५) मानव वन्यप्राणी संघर्षाच्या घटना कमी करण्यासाठी व असे प्रसंग हाताळण्यासाठी अद्यावत प्रशिक्षण केंद्र विकसित करणे.
- (६) निसर्ग आधारीत शिक्षण, मनोरंजन व पर्यटनास चालना देणे.
- (७) रोजगार / स्वयंरोजनगाराच्या संधी उपलब्ध करून देणे.

३) सदर प्रकल्पामध्ये खालील बाबींचा समावेश असेल :-

- १) गोंडवाना बायोपार्क : पृथ्वीची उत्पत्ती (evolution), त्यावरील जैवविविधता तसेच वन्यजीव संवर्धन या विषयावरील बायोपार्कची संरचना करून सदर पार्कमध्ये पायवाटा (walking trails), सरपटणा-या प्राण्यांची बाग (Reptile garden) तसेच मुलांकरीता निसर्ग उद्यान स्थापन करण्यात येतील.
- २) इंडियन सफारी : भारतात आढळणाऱ्या प्राण्यांची सफारी स्थापन करण्यात येईल. त्याचप्रमाणे सदर सफारी ट्रॅम सवारी मार्फतही पाहता येईल, अशी उपाययोजना करण्यात येईल.
- ३) आफ्रिकन सफारी : आफ्रिकेत आढळणाऱ्या प्राण्यांची सफारी स्थापन करण्यात येईल. त्याचप्रमाणे सदर सफारी ट्रॅम सवारी मार्फत पाहता येईल, अशी उपाययोजना करण्यात येईल.
- ४) रिक्टर राईड (River Ride) : बोटीमार्फत पर्यटकांना वन्यप्राणी, पक्षी, वनस्पती, जलचर प्राणी इत्यादी पाहता यावेत याकरीता कालवा तयार करण्यात येईल.
- ५) गोरेवाडा रिझर्व : गोरेवाडा येथे तलावाच्या कडेला असलेल्या क्षेत्रावर गोरेवाडा रिझर्व तयार करण्यात येऊन त्यामध्ये मध्य भारतातील वन्यप्राणी प्रदर्शनासाठी ठेवण्यात येतील. तसेच प्राण्यांचे पिंजरे या भागात राहणार नाहीत याची दक्षता घेण्यात येईल. असे केल्याने पिंज-यातील प्राण्यांचा मलमुत्रामध्ये तलावाचे पाणी दुषित होणार नाही, याची दक्षता घेतली जाईल.
- ६) बचाव केंद्र व प्रजनन केंद्र : जखमी झालेल्या, रोगग्रस्त, पकडण्यात आलेल्या तसेच परवानगी नसलेल्या प्राणिसंग्रहालयातील वन्यप्राण्यांचा उपचार व पुनर्वसन करण्यासाठी बचाव केंद्र (Rescue Centre) त्याचप्रमाणे दुर्मिळ झालेल्या वन्यप्राण्यांचा प्रजननासाठी प्रजनन केंद्र (Conservation Breeding Centre) निर्माण करण्यात येईल.
- ७) पर्यटकांसाठी सुविधा : प्राणिसंग्रहालयात ये-जा करण्या-या पर्यटकांकरीता पार्किंग, रेस्टारंटस्, दुकाने, पिण्याचे पाणी प्रसाधनगृह, प्राणिसंग्रहालय पाहण्यासाठी वाहन, इत्यादीची व्यवस्था करण्यात येईल. प्राणिसंग्रहालयातील रेस्टारंटस् व दुकाने भाडे तत्वावर खाजगी कंपनीला लीजवर देण्यांत येईल. पर्यटकांसाठी सदर सोयी सुविधा, कर्मचा-यांसाठी निवासस्थाने व प्रशासकीय इमारती शक्यतोवर वनेत्तर शासकीय जमिनीवर उभारण्यात येतील. मात्र अत्यावश्यक सुविधा वनक्षेत्रात घेता येतील.

- ८) इतर पायाभूत सुविधा : प्रस्तावित प्राणीसंग्रहालयांतर्गत कुरण क्षेत्र, रोपवाटिका, रस्ता, संरक्षणासाठी पूर्ण क्षेत्राभोवती कुंपण, भिंत इत्यादींची उभारणी करण्यांत येईल. तसेच बायोगॅस व सौर विद्युत या अपारंपारिक उर्जा स्रोताचा उपयोगही करण्यांत येईल.
- ९) शिक्षण व प्रसिध्दी : वन्यजीव संरक्षण व संवर्धनाचे महत्त्व पर्यटकांना, शाळेतील मुलांना, शिक्षकांना व इतराना शिक्षण देण्याची व्यवस्था करण्यांत येईल. त्याचप्रमाणे प्राणीसंग्रहालयास जास्तीत जास्त लोकानी भेट द्यावी याकरीता सदर प्रकल्पास व्यापक प्रसिध्दी देण्यात येईल.
- १०) संशोधन : स्थानिक विद्यापीठांसोबत वन्यजीव संबंधीत विविध विषयांवर संशोधन कार्यक्रम राबविण्याची व्यवस्था करण्यांत येईल.

वरील कार्यविधीची व्याप्ती व स्वरूप हे विशेष सल्लागार यांच्या सल्ल्याने पुनर्रचित प्रकल्प प्रस्तावानुसार राबविण्यात येतील.

४) विशेष उद्देश व्यवस्था (Special Purpose Vehicle) :-

- (१) एफ.डी.सी.एम. लिमिटेड मार्फत गोरेवाडा प्राणीसंग्रहालय प्रकल्प राबविण्यासाठी विशेष उद्देश व्यवस्था (Special Purpose Vehicle) स्थापन करण्याकरीता एफ.डी.सी.एम. लिमिटेडचे Article १२ (२) अंतर्गत असलेल्या तरतूदीला अनुसरून शासनाची मान्यता देण्यात येत आहे.
- (२) सदर विशेष उद्देश व्यवस्थे अंतर्गत एफ.डी.सी.एम. लिमिटेड आणि निवडलेल्या खाजगी उद्योजक यांची संयुक्त उपक्रम कंपनीची निर्मिती करण्यात यावी.
- (३) विशेष उद्देश व्यवस्थे अंतर्गत राबविण्यात येणा-या प्रकल्पामध्ये शासनाचे भाग भांडवल ५१ टक्के एवढे असेल.
- (४) गोरेवाडा प्राणीसंग्रहालयाच्या विविध सुविधांची उभारणी व त्याचे परीरक्षणाची जबाबदारी वरील प्रमाणे निर्मित विशेष उद्देश व्यवस्थेची (Special Purpose Vehicle) राहिल. याकरीता आवश्यक असलेले कर्मचारीवृंदांची नेमणूक करणे तसेच प्राणीसंग्रहालयाचे प्रवेश शुल्क निश्चित करून वसूल करण्याचे अधिकार या विशेष उद्देश व्यवस्थेला राहतील.
- (५) गोरेवाडा प्राणीसंग्रहालयाकरीता जमीनी व्यतिरिक्त शासनाच्या वतीने वर्ष २०११-१२ व २०१२-१३ या आर्थिक वर्षामध्ये प्रत्येकी ५० कोटी याप्रमाणे एकूण १०० कोटी व्हायाबिलिटी गॅप फंडींग (VGF) म्हणून टप्प्याटप्प्याने शासनातर्फे देण्यात येईल.
- (६) शासनाचे अनुदान एफ.डी.सी.एम. लिमिटेडमार्फत केवळ प्राणीसंग्रहालयाच्या भांडवली खर्चाकरीता वापरण्यात येईल. प्राणीसंग्रहालयाच्या पुढील परिरक्षणाची जबाबदारी विशेष उद्देश व्यवस्थेची राहिल.

५) प्रकल्प कार्यान्वयन :-

- (१) गोरेवाडा प्राणीसंग्रहालय प्रकल्पाकरीता गोरेवाडा येथील सर्व्हे क्रमांक २/१, २/२ व २/३ मधील २८.३७ हेक्टर वनेतर शासकीय जमीनीचा वापर पर्यटन विकासाकरीता वाणिज्यिक तत्वावर करण्यासाठी महाराष्ट्र वनविकास महामंडळाने आवश्यक प्रस्ताव शासनास सादर करावा. सदर प्रस्ताव प्राप्त झाल्यावर महसूल विभाग त्यावर मान्यतेसंबंधात कार्यवाही करेल.

(२) विशेष उद्देश व्यवस्थेची स्थापना होईपर्यंत प्राणीसंग्रहालयाच्या विकासाची कामे करण्याकरीता "२४०६ वनीकरण व वन्यजीव" या प्रधान लेखाशिर्षाअंतर्गत गोरेवाडा येथील प्रस्तावित प्राणीसंग्रहालयाची कामे (राज्य) (२४०६२२५९) वर्ष २०११-१२ मध्ये रुपये २० कोटी अर्थसंकल्पित तरतूद करण्यात आली आहे. सदर तरतूद प्रधान मुख्य वनसंरक्षक (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांच्याकडे हस्तांतरीत करण्यास मान्यता देण्यात येत आहे. प्रधान मुख्य वनसंरक्षक (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांनी सदर तरतूदीद्वारे प्राणीसंग्रहालयाची विकासाची कामे एफ.डी.सी.एम.लि. मार्फत करून घ्यावीत. त्याचप्रमाणे सदर तरतूद विकास कामांची प्रगती व आवश्यकतेनुसार टप्प्या-टप्पाने वर्ग करण्यात येईल.

विशेष उद्देश व्यवस्था (Special Purpose Vehicle) स्थापन झाल्यानंतर सदरची २० कोटी तरतूद व त्यानंतर देण्यात येणारे अनुदान हे विशेष उद्देश व्यवस्थेचे भावी भाग भांडवल म्हणून मानण्यात येईल.

(३) गोरेवाडा प्राणीसंग्रहालय प्रकल्पाकरीता प्रकल्प व्यवस्थापन सल्लागार (Project Management Consultant) व्यापक जाहिरात देऊन नेमण्यात येईल. या व्यतिरिक्त आवश्यक ते विशेषज्ञ कंत्राट पद्धतीने नेमण्याची एफ.डी.सी.एम. लिमिटेडला मुभा राहिल. यावर होणारा खर्च शासनाकडून भाग भांडवलाचे अनुदानातून करण्यात यावा.

(४) एफ.डी.सी.एम. लिमिटेडतर्फे गोरेवाडा प्राणीसंग्रहालय क्षेत्राचे संरक्षण भिंत बांधकामाचे काम त्वरीत सुरू करण्यात यावे.

(५) गोरेवाडा परिसरातील आढळणाऱ्या वन्यप्राण्यांना त्याच ठिकाणी नैसर्गिक अधिवास उपलब्ध व्हावा व त्यांचे in-situ conservation व्हावे यासाठी गोरेवाडा रिझर्वचा विकास अभयारण्य म्हणून करण्यात यावा. त्याकरीता वनसंवर्धन अधिनियम, १९८० व वन्यजीव संरक्षण अधिनियमास बाधा होणार नाही अशा रितीने अंतर्गत कुंपण, निसर्ग पायवाट पक्षी निरीक्षण कुटी व वन्यप्राणी अधिवास सुधारणा (Habitat Development) करणे इत्यादी कामे करण्यात यावेत.

६) सशक्त समित्यांचे गठण :-

सदर प्रकल्पाचे महत्त्व लक्षात घेता खालील प्रमाणे समित्यांचे गठण करण्यास मान्यता प्रदान करण्यात येत आहे. यापैकी मंत्रालय स्तरावर कार्यकारी सशक्तता समिती व क्षेत्रिय स्तरावर सशक्तता समिती ह्या प्रकल्पाकरीता विशेष उद्देश व्यवस्था कार्यरत होईपर्यंत अस्तित्वात राहतील.

(१) मंत्रालय स्तरावरील कार्यकारी सशक्तता समिती.

१. मुख्य सचिव	अध्यक्ष
२. प्रधान सचिव (वने)	सदस्य
३. प्रधान सचिव (वित्त)	सदस्य
४. प्रधान मुख्य वनसंरक्षक (वन्यजीव)	सदस्य
५. व्यवस्थापकीय संचालक, एफ.डी.सी.एम. लिमिटेड	सदस्य सचिव

सदर समिती व्हायाबिलिटी गॅप फंडींग, प्रकल्प व्यवस्थापन सल्लागाराची नियुक्ती, अर्थसंकल्पिय तरतूद करणे व कामाच्या प्रगतीचा आढावा घेणे याबाबत नियंत्रण करेल. तसेच आंतरराष्ट्रीय बिडीगनंतर खाजगी भागीदाराची निवड करण्याचे अधिकारही या समितीला राहतील.

त्याचप्रमाणे रुपये २ कोटी रकमेपेक्षा जास्तीच्या कामांना मान्यता देण्याचे अधिकारही या समितीला राहतील.

(२) क्षेत्रीय स्तरावरील सशक्तता समिती.

१. व्यवस्थापकीय संचालक, महाराष्ट्र वन विकास महामंडळ	अध्यक्ष
२. अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव पूर्व), नागपूर	सह अध्यक्ष
३. विभागीय आयुक्त, नागपूर	सदस्य
४. आयुक्त, नागपूर महानगरपालिका, नागपूर	सदस्य
५. अध्यक्ष, नागपूर सुधार प्रन्यास, नागपूर	सदस्य
६. जिल्हाधिकारी, नागपूर	सदस्य
७. सह-संचालक (वित्त व कोषागारे), नागपूर	सदस्य
८. मुख्य अभियंता सार्वजनिक बांधकाम विभाग, नागपूर	सदस्य
९. संचालक, गोरेवाडा प्राणीसंग्रहालय	सदस्य सचिव
१०. उपसंचालक, नगर रचना, नागपूर	सदस्य

सदर समिती प्रकल्प व्यवस्थापन घटकाच्या कामाचा आढावा घेईल. प्रकल्पाकरीता रुपये २ कोटी पर्यंत खर्च करण्याची व सदर कामांना प्रशासकीय / तांत्रिक मान्यता देणे व निविदा मान्य करण्याचे अधिकार सदर समितीला राहतील. प्रकल्प व्यवस्थापन घटक (PMU) करिता तांत्रिक मनुष्यबळ कंत्राटी पध्दतीने उपलब्ध करून घेण्याचे अधिकार सदर समितीला राहतील.

प्रकल्पाची प्रारंभिक कामे जसे क्षेत्र संरक्षित करण्यासाठी भिंतीचे कुंपण पी.एम.यु. स्थापन करण्यास पी.एम.सी. ची नियुक्ती करण्याकरीता उपलब्ध अर्थसंकल्पिय तरतुद (रुपये २ कोटी) वापरण्याचे अधिकार सदर समितीला राहतील.

सदर प्रकल्प राबविणसाठी तयार केलेला बृहत आराखड्यातील संकल्पनेचा (Concept Paper) आधार घेऊन आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्यासाठी देशांतर्गत सल्लागार नेमण्याचे अधिकार सदर समितीला राहतील.

७) दुर्मिळ झालेल्या प्राण्यांच्या प्रजातींचे शास्त्रोक्त पध्दतीने प्रजनन करणे, वन्यजीव संवर्धनासंबंधी संशोधन व शिक्षण, जखमी झालेल्या, आजारी प्राण्यांच्या तसेच परवानगी नसलेल्या जप्त वन्य प्राण्यांचे पुनर्वसन, मानव वन्यप्राणी संघर्षाच्या घटना कमी करण्यासाठी व असे प्रसंग हाताळण्यासाठी अद्यावत प्रशिक्षण केंद्र विकसित करणे याकरीता गोरेवाडा वन्यजीव प्रतिष्ठानाची स्थापना करण्यात येईल.

८) गोरेवाडा प्राणीसंग्रहालयाचे उभारणीकरीता संबंधीत अधिकारी व कर्मचारी यांना प्राणीसंग्रहालय व्यवस्थापनाचे प्रशिक्षण देण्यात यावे. तसेच गोरेवाडा सारखे स्वरूपाचे अस्तित्वात असलेले प्राणीसंग्रहालयांना अभ्यास भेटीचे आयोजन करण्यात यावे.


९) विशेष उद्देश व्यवस्था निर्मितीपूर्वी गोरेवाडा प्राणीसंग्रहालयासंबंधी स्थानिक जन प्रतिनिधी, उद्योजक, निसर्गप्रेमी यांची कार्यशाळा आयोजित करण्यात यावी व त्यांचे मत जाणून घेण्यात येवून त्यानुसार प्राणीसंग्रहालयाची उभारणी करण्यात यावी.

१०) संदर्भ क्रमांक २ मधील शासन निर्णय दिनांक १० ऑगस्ट २००७ मध्ये नमूद केल्याप्रमाणे "गोरेवाडा प्रकल्प नागपूर स्थापन केलेल्या प्राधिकरणाच्या अधिपत्याखाली काम करेल व संचालक,

गोरेवाडा प्रकल्प, नागपूर हे उपरोक्त प्राधिकरणाचे सहयोगी सदस्य असतील” हे आदेश रद्द करण्यात येत आहेत. प्राधिकरणासंबंधीचा सुधारित शासन निर्णय वेगळ्याने जारी करण्यात येत आहे.

- ११) सदर प्रकल्प केंद्रीय चिडीयाघर प्राधिकरण, सर्वोच्च न्यायालय व आवश्यकतेनुसार केंद्रीय पर्यावरण व वन मंत्रालय यांच्या अंतिम मान्यतेच्या अधीन राहून राबविण्यात येईल.
- १२) सदर योजनेवर शासनाकडून होणारा खर्च २४०६-वनीकरण व वन्यजीव, ०१ वनीकरण (११०) वन्यजीवन पंचवार्षिक योजनांतर्गत योजना राज्य योजनांतर्गत योजना (००) (१२) गोरेवाडा येथील प्रस्तावित प्राणीसंग्रहालयाची प्राथमिक कामे (राज्य) (२४०६-२२५९) या लेखाशिर्षाखाली उपलब्ध होणा-या अनुदानातून भागविण्यात यावा.
- १३) सदर शासन निर्णय, महसूल विभाग, नियोजन विभाग तसेच वित्त विभागाच्या अनौपचारिक संदर्भ क्रमांक : ३०४/२०११/व्यय-१, दिनांक २५.११.२०११ अन्वये दिलेल्या सहमतीने निर्गमित करण्यात येत आहे.
- १४) सदर शासन निर्णय महाराष्ट्र शासनाच्या www.Maharashtra.gov.in या वेबसाईटवर उपलब्ध करण्यात आला असून त्याचा संगणक संकेतांक २०१११३०१६५३०७००१ असा आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने.



(विवेक खांडेकर)

सह सचिव (वने)

महसूल व वन विभाग.

प्रति,

प्रधान सचिव (महसूल), महसूल व वन विभाग, मंत्रालय, मुंबई
प्रधान सचिव (वित्त), वित्त विभाग, मंत्रालय, मुंबई
प्रधान सचिव, नगर विकास विभाग, मंत्रालय, मुंबई
प्रधान मुख्य वनसंरक्षक, महाराष्ट्र राज्य, नागपूर.
प्रधान मुख्य वनसंरक्षक (वन्यजीव), महाराष्ट्र राज्य, नागपूर.
अपर प्रधान मुख्य वनसंरक्षक (अर्थसंकल्प, नियोजन व विकास), महाराष्ट्र राज्य, नागपूर.
अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव) पूर्व, महाराष्ट्र राज्य, नागपूर.
अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव) पश्चिम, बोरीवली, मुंबई.
अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव), नाशिक.
सर्व मुख्य वनसंरक्षक (प्रादेशिक) / सर्व मुख्य वनसंरक्षक (वन्यजीव)
विभागीय आयुक्त, नागपूर
आयुक्त, नागपूर महानगरपालिका, नागपूर
अध्यक्ष, नागपूर सुधार प्रन्यास, नागपूर
जिल्हाधिकारी, नागपूर
सह-संचालक (वित्त व कोषागारे), नागपूर
मुख्य अभियंता सार्वजनिक बांधकाम विभाग, नागपूर
संचालक, गोरेवाडा प्राणीसंग्रहालय
उपसंचालक, नगर रचना, नागपूर
सर्व वनसंरक्षक (वन्यजीव) / सर्व उपवनसंरक्षक (वन्यजीव)

कक्ष अधिकारी (व्यय-१०), वित्त विभाग, मंत्रालय, मुंबई-४०० ०३२.
कक्ष अधिकारी (विसु-१), वित्त विभाग, मंत्रालय, मुंबई-४०० ०३२.
कक्ष अधिकारी (विसु-१), नियोजन विभाग, मंत्रालय, मुंबई-४०० ०३२.
महालेखापाल-१/२ (लेखा व अनुज्ञेयता)/(लेखापरीक्षा), महाराष्ट्र राज्य, मुंबई/नागपूर.
फ-१ कार्यासन, महसूल व वन विभाग, मंत्रालय, मुंबई - ४०० ०३२ (निवडनस्ती).

नागपूर जिल्हयातील गोरेवाडा
जंगलाचे व तेथील वन्य प्राण्यांचे
संरक्षण करणेबाबत.

**महाराष्ट्र शासन
महसूल व वन विभाग**

शासन निर्णय क्रमांक : डब्ल्युएलपी-१००९/प्र.क्र.११९/फ-१,
मंत्रालय, मुंबई : ४०० ०३२.
दिनांक : २९ नोव्हेंबर, २०११.

- वाचा :-**
१. शासन निर्णय क्रमांक : डब्ल्युएलपी-१०१९/प्र.क्र.८९/फ-१, दि.१२ डिसेंबर, २००५.
 २. महाराष्ट्र शासन, महसूल व वन विभाग, मंत्रालय, मुंबई शासन निर्णय क्रमांक डब्ल्युएलपी-१००७/प्र.क्र. १४०/फ-१ दिनांक १० ऑगस्ट २००७.
 ३. शासन निर्णय क्रमांक : डब्ल्युएलपी-२००४/प्र.क्र.५२/फ-१, दि.२७ जून, २००८.
 ४. प्रधान मुख्य वनसंरक्षक, (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्ष-२२(६)/यो/गोरेवाडा/३११/२००९-१०, दिनांक १२ मे, २००९
 ५. प्रधान मुख्य वनसंरक्षक, (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्ष-२२(६)/यो/गोरेवाडा/७४९/२००९-१०, दिनांक १८ नोव्हेंबर, २००९
 ६. प्रधान मुख्य वनसंरक्षक, (वन्यजीव), महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्ष-२२(६)/यो/गोरेवाडा/२२९/२००९-१०, दिनांक ५ जून, २०१०.

प्रस्तावना :-

मौजे गोरेवाडा, तालुका नागपूर येथे १०० ते १५० हेक्टर वन क्षेत्रावर आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्यास संदर्भ क्रमांक १ अन्वये शासनाने तत्त्वतः मान्यता प्रदान केली आहे. संदर्भ क्रमांक २ नुसार प्रस्तावित प्राणीसंग्रहालयाचा बृहत आराखडा तयार करण्यासाठी मे. बर्नाड हॅरीसन अॅन्ड फ्रेंड्स, सिंगापूर यांना सल्लागार म्हणून नेमण्यात आले. त्यानुसार सल्लागार यांनी दिनांक ५ मे, २००९ अन्वये प्राणीसंग्रहालयाचा बृहत आराखडा सादर केला. सदर आराखड्यानुसार गोरेवाडा नागपूर येथे असलेल्या १९१४ हेक्टर वन क्षेत्रावर आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्याचे प्रस्तावित आहे. त्याचप्रमाणे दुर्मिळ तसेच राज्यातील या भागातून विलुप्त झालेल्या प्राण्यांचे प्रजनन करून त्यांच्या नैसर्गिक अधिवासात त्यांचे पुनःस्थापन करणेही प्रस्तावित आहे. सदर प्रकल्प हा नागपूर शहरास लागून असल्याने या प्रकल्पामुळे या भागात निसर्ग पर्यटनास चालना मिळेल व रोजगाराच्या संधी उपलब्ध होतील. सदर पार्श्वभूमीच्या अनुषंगाने मौजे गोरेवाडा, तालुका-जिल्हा नागपूर येथे आंतरराष्ट्रीय दर्जाचे प्राणीसंग्रहालय स्थापन करण्याची बाब शासनाच्या विचाराधीन होती. या संदर्भात शासन निर्णय झालेला आहे. त्यानुसार प्राणीसंग्रहालय स्थापनेचे काम एफ.डी.सी.एम. लिमिटेड व खाजगी सहयोगी यांची विशेष उद्देश व्यवस्थेची निर्मिती करून त्यामार्फत करावयाचे आहे. सदर विशेष उद्देश व्यवस्थेस प्राणीसंग्रहालय स्थापन करण्याकरीता सर्वोच्च न्यायालय, केंद्रिय प्राणीसंग्रहालय प्राधिकरण (CZA) व वन संवर्धन कायदा, १९८० (FCA) अंतर्गत परवानगी घेणे आवश्यक आहे. या परवानगी घेणेकरीता लागणा-या कालावधीमध्ये गोरेवाडा प्राणीसंग्रहालय वनक्षेत्राचे अतिक्रमण, वन्यजीव संरक्षण इत्यादी बाबींची संवेदनशिलता लक्षात घेता सदर क्षेत्राचे संरक्षण व संवर्धन करण्याकरीता शासनाने खालील प्रमाणे निर्णय घेतला आहे.

शासन निर्णय :-

- (१) गोरेवाडा प्राणीसंग्रहालय प्रकल्पाकरीता निश्चित केलेली १९१४ हेक्टर वन जमीन ही एफ.डी.सी.एम. लिमिटेडकडे हस्तांतरीत करण्यात येत आहे.
- (२) गोरेवाडा प्राणीसंग्रहालयासाठी सद्या वन विभागामध्ये मंजूर असलेली व सोबतच्या परिशिष्टात दर्शविण्यात आलेली पदे, या पदांवर कार्यरत असलेले अधिकारी / कर्मचारीवृंदासह एफ.डी.सी.एम. लिमिटेडकडे हस्तांतरीत करण्यात येत आहे. सदर अधिकारी / कर्मचाऱ्यांचे वेतन व भत्ते वन विभागाकडे संबंधित लेखाशीर्षाकडे उपलब्ध असलेल्या नियमित अनुदानातून वन विभागामार्फतच अदा करणे चालू राहिल. मात्र त्यांचेवर एफ.डी.सी.एम. लिमिटेड यांचे प्रशासकीय नियंत्रण राहिल.
- (३) एफ.डी.सी.एम. लिमिटेड या अधिकारी / कर्मचाऱ्यांचा वापर गोरेवाडा प्राणीसंग्रहालय प्रकल्प क्षेत्राचे व परीसरात आढळणा-या वन्यप्राण्यांच्या संरक्षण, संवर्धन व त्यांचे अधिवासाच्या विकास कामाकरीता करण्यात येईल.
- (४) गोरेवाडा प्राणीसंग्रहालय क्षेत्राचे अतिक्रमणापासून संरक्षण करण्याकरीता आवश्यक तेथे क्षेत्रा सभोवताल संरक्षण भित / कुंपण अथवा इतर संरक्षण उपाययोजना एफ.डी.सी.एम. लिमिटेडतर्फे करण्यात यावी. सदरची संरक्षण भित केंद्रीय चिडीयाघर प्राधिकरणाने मंजूर केलेल्या आकारमान व डिझाईनची असावी. यासाठी वर्ष १९९१-९२ च्या दरम्यान पर्यायी वनीकरण अंतर्गत रोपवने घेऊन काही भागात उभारण्यात आलेले परंतु सध्या दुरावस्थेत असलेले तार कुंपणाचा शक्यतोवर गरजेनुसार वापर करण्यात यावा.
- (५) गोरेवाडा तलावाच्या लगतचे क्षेत्राचा विकास गोरेवाडा रिजर्व म्हणून करण्याकरीता क्षेत्राचे संरक्षण, संवर्धन व आवश्यक तेथे अंतर्गत कुंपण, निसर्ग पायवाट व वन्यप्राणी अधिवास सुधारणेची (Habitat Development) कामे तसेच Rescue Centre ची कामे एफ.डी.सी.एम. लिमिटेडतर्फे करण्यात येतील. सदरची कामे करण्याकरीता वर्ष २०११-१२ मध्ये अर्थसंकल्पित तरतूद २० कोटी तात्काळ एफ.डी.सी.एम. लिमिटेडला हस्तांतरीत करण्यास मान्यता देण्यात येत आहे.
- (६) सदर योजनेवर शासनाकडून होणारा खर्च २४०६-वनीकरण व वन्यजीव, ०१ वनीकरण (११०) वन्यजीवन पंचवार्षिक योजनांतर्गत योजना राज्य योजनांतर्गत योजना (००) (१२) गोरेवाडा येथील प्रस्तावित प्राणीसंग्रहालयाची प्राथमिक कामे (राज्य) (२४०६-२२५९) या लेखाशिर्षाखाली उपलब्ध होणा-या अनुदानातून भागविण्यात यावा.
- (७) सदर शासन निर्णय, महसूल विभाग, नियोजन विभाग तसेच वित्त विभागाच्या अनौपचारिक संदर्भ क्रमांक : ३०४/२०११/व्यय-१, दिनांक २५.११.२०११ अन्वये दिलेल्या सहमतीने निर्गमित करण्यात येत आहे.

सदर शासन निर्णय महाराष्ट्र शासनाच्या www.Maharashtra.gov.in या वेबसाईटवर उपलब्ध करण्यात आला असून त्याचा संगणक संकेतांक २०११११३०१७०१५४००१ असा आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने.

(विवेक खांडेकर)

सह सचिव (वने)

महसूल व वन विभाग.

प्रति,

प्रधान मुख्य वनसंरक्षक, महाराष्ट्र राज्य, नागपूर.

प्रधान मुख्य वनसंरक्षक (वन्यजीव), महाराष्ट्र राज्य, नागपूर.

अपर प्रधान मुख्य वनसंरक्षक (अर्थसंकल्प, नियोजन व विकास), महाराष्ट्र राज्य, नागपूर.
अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव) पूर्व, महाराष्ट्र राज्य, नागपूर.
अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव) पश्चिम, बोरीवली, मुंबई.
अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव), नाशिक.
सर्व मुख्य वनसंरक्षक (प्रादेशिक) / सर्व मुख्य वनसंरक्षक (वन्यजीव)
विभागीय आयुक्त, नागपूर
आयुक्त, नागपूर महानगरपालिका, नागपूर
अध्यक्ष, नागपूर सुधार प्रन्यास, नागपूर
जिल्हाधिकारी, नागपूर
सह-संचालक (वित्त व कोषागारे), नागपूर
मुख्य अभियंता सार्वजनिक बांधकाम विभाग, नागपूर
संचालक, गोरेवाडा प्राणीसंग्रहालय
उपसंचालक, नगर रचना, नागपूर
सर्व वनसंरक्षक (वन्यजीव) / सर्व उपवनसंरक्षक (वन्यजीव)
कक्ष अधिकारी (व्यय-१०), वित्त विभाग, मंत्रालय, मुंबई-४०० ०३२.
कक्ष अधिकारी (विसु-१), वित्त विभाग, मंत्रालय, मुंबई-४०० ०३२.
कक्ष अधिकारी (विसु-१), नियोजन विभाग, मंत्रालय, मुंबई-४०० ०३२.
महालेखापाल-१/२ (लेखा व अनुज्ञेयता)/(लेखापरीक्षा), महाराष्ट्र राज्य, मुंबई/नागपूर.
फ-१ कार्यासन, महसूल व वन विभाग, मंत्रालय, मुंबई - ३२ (निवडनस्ती).

शासन निर्णय क्रमांक : डब्ल्यूएलपी १००९/प्र.क्र.११९/फ-१,
दिनांक २९ नोव्हेंबर, २०११ सोबतचे परिशिष्ट

वन विभागाकडे मंजूर असलेली व एफ.डी.सी.एम.लि.कडे हस्तांतरीत करण्यात येणारी पदे

अ.क्र.	पदनाम	संख्या
१	वनपाल	४
२	वनरक्षक	१३
३	वाहनचालक	१
४	अधिसंख्य वनमजूर	१५
	एकूण	३३



जहाँ है हरियाली।
वहाँ है खुशहाली।।



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
Central Zoo Authority



THROUGH SPEED POST

F. No. 20-2/2010-CZA(Vol. I)(M)/1594

DATE: 28.08.2012

To

The Principal Chief Conservator of Forests (WL)
Government of Maharashtra,
Vanbhavan, Ramgiri Road,
Civil Lines,
Nagpur - 440 001 (Maharashtra).

Sub:- Establishment of a Rescue Centre at Gorewada, Maharashtra.

- Ref:- (i) Your office letter No. Desk-22(6)/48/2009-10 dated 21st December 2009.
- (ii) This office letter No. 23-11/99-CZA(403)(M) dated 14.01.2010.
- (iii) This office letter No. 23-11/99-CZA(403)(M) dated 09.03.2010.
- (iv) Your office letter No. Desk (22)(6)/CR-91/590/2010-11 dated 15.10.2010.
- (v) Letter No. Desk (22)(6)/CR-91/795/2010-11 dated 26.11.2010 from the Director, Gorewada Project, Nagpur.
- (vi) This office letter No. 20-2/2010-CZA(M) dated 04.01.2011
- (vii) Your office letter No. Desk (22)(6)/CR-91/1210/2010-11 dated 25.03.2011
- (viii) This office letter No. 20-2/2010-CZA(M) dated 02.04.2011.
- (ix) This office letter No. 20-2/2010-CZA(M) dated 06.06.2011.
- (x) Your office letter No. Desk (22)(6)/CR-91/332/2011-12 dated 12.07.2011.
- (xi) This office letter No. 20-2/2010-CZA(M)/338 dated 22.07.2011.
- (xii) Your office letter No. Desk (22)(6)/CR-91/475/2011-12 dated 14.09.2011.
- (xiii) Letter No. GM/GMWFP/Gorewada/227 dated 10.05.2012 from Managing Director, Forest Development Corporation or Maharashtra, Nagpur.
- (xiv) Letter No. GM/GMWFP/Gorewada/770 dated 06.08.2012 from Managing Director, Forest Development Corporation or Maharashtra, Nagpur.

Sir,

Reference is invited to the above cited correspondence.

The proposal for establishment of a Rescue Centre at Gorewada, Maharashtra on an area of 25 hectares has been scrutinized by the Expert Group on Zoo Designing of the Central Zoo Authority and the same was placed before the 62nd Meeting of the Technical Committee of CZA held on 5th July, 2012 for its approval.

2/-

The Central Zoo Authority conveys its approval under Section 38H (1A) of the Wild Life (Protection) Act, 1972 to establish a Rescue Centre at Gorewada, subject to the orders from the Hon'ble Supreme Court of India and the fulfillment of the following conditions:-

- (i) The Forest Department of Maharashtra should submit an undertaking that requisite number of experts of various disciplines including a competent Officer-in-charge, Animal Curator, Biologist, Veterinary Officer would be posted for the execution of the said project.
- (ii) The Forest Department of Maharashtra shall ensure that the animal enclosure design and the area provided for various species at the Rescue Centre shall be as per the prescribed Rules and guidelines of the Central Zoo Authority.
- (iii) It will be the sole responsibility of the Forest Department of Maharashtra to make provision of necessary funds for creation of the proposed rescue centre as well as for the future maintenance of its establishment on professional grounds.
- (iv) The proposed rescue centre should support the wild animals received due to man-animal conflict in the region and wild animal rescue and rehabilitation efforts of the Forest Department of Maharashtra.
- (v) On receipt of the necessary clearance from the Hon'ble Supreme Court, the Forest Department of Maharashtra should submit the detailed master plan for the long term development of the rescue centre for the approval of the Central Zoo Authority.
- (vi) Once the Rescue Centres, become ready for operation, it shall be made functional formally after getting prior recognition from the Central Zoo Authority under Section 38H of the Wild Life (Protection) Act, 1972.
- (vii) The ultimate responsibility of upkeep and welfare of animals at the rescue centre in accordance to the guidelines and the rules notified by the Central Government in this behalf would lie on the Maharashtra Forest Department.
- (viii) The Forest Department of Maharashtra should execute the establishment of Rescue Centre once you receive the clearance from the Hon'ble Supreme Court, not later than one year of receipt of clearance from the Hon'ble Court.

Recognition to a Rescue Centre at Gorewada under Section 38H (2) of the Wild Life (Protection) Act, 1972 shall be considered only after compliance of the above said conditions and physical evaluation of the proposed Rescue Centre at that point of time.

Yours faithfully,

(B. S. Bonal)

Member Secretary

Copy for favour of information & necessary action to:-

1. The Principal Secretary (Forests), R. & FD Manralaya, Government of Maharashtra, Mumbai - 23, Maharashtra.
2. The Managing Director, Forest Development Corporation of Maharashtra Ltd., Plot No. 12, Rawel Plaza, Kadbi Chowk, Kamptee Road, Nagpur - 440 004.
3. Director, Gorewada Project, office of the PCCF, Government of Maharashtra, Nagpur.



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE

Central Zoo Authority



F.No.23-11/99-CZA(403)(Vol.I)(AK)/7196

DATE: 27.05.2015

To

The Managing Director,
Forest Development Corporation of Maharashtra Ltd.;
Plot No.12, 'Rawel Plaza' Kadbi Chowk,
Kamptee Road,
Nagpur - 440 004. (Maharashtra);
E-mail:- mdfdcltd@gmail.com; Fax:- 0712 - 2551686.

Subject:- Approval of Revised Master (layout) Plan & Master Plan of Zoo and Rescue Centre, Gorewada, Maharashtra - regarding

Reference:-

1. Your office letter No.GM/WFP/Gorewada/38(II)/337, Dt.27.05.2015
2. Your office letter No.GM/WFP/Gorewada/30/2014-15/1731, Dt.13.02.2015
3. Letter No. Desk-23(4)/Cr.No.19II(2012-13)/4133, Dt.09.02.2015 from the O/o the PCCF(WL), Maharashtra
4. This office letter F.No.23-11/99-CZA(403)(Vol.I)(AK)/6819, Dt.16.03.2015

Sir,

With reference to above cited correspondence, it is to inform that the revised Master (layout) Plan & Master Plan of Zoo and Rescue Centre, Gorewada, Maharashtra submitted to Central Zoo Authority have been approved by the Technical Committee of Central Zoo Authority in its 73rd meeting held on 10th March, 2015 subject to condition that detailed layout plan of Night Safari to be decided after site inspection.

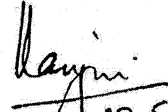
As compliance with the observations communicated by the Central Zoo Authority has been received vide letter cited at ref.(1), a signed copy of Master (layout) Plan and Master Plan for the long term development of the Zoo and Rescue Centre, Gorewada, Maharashtra is enclosed with this letter. Further, it is to inform that the approval of Master Plan of Zoo and Rescue Centre, Gorewada, Maharashtra is subject to following conditions:

Contd...

(a) the responsibility of mobilizing the financial resources for implementation of the Master Plan will be the sole responsibility of the State Government or respective Zoo Operator, and

(b) the State Government or respective Zoo Operator should quantify the resources available for the implementation of Master Plan.

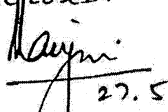
Yours faithfully


27.5.15
(Vinod Ranjan)
Member Secretary

ENCLOSED:- AS ABOVE

Copy for favour of information to:-

The Chief Wildlife Warden, Government of Maharashtra, 3rd Floor, Van Bhavan, Ram Giri Road, Civil Lines, Nagpur – 440 001. (Maharashtra), Fax:- 0712 – 2553018; E-mail:- pccfwlngp@mahaforest.gov.in - COPY OF SIGNED MASTER PLAN IS ENCLOSED.


27.5.15
(Vinod Ranjan)
Member Secretary

ANNEXURE- IV a

II

DATE OF ORDER _____ COURT NO. _____ ITEM NO. _____ SEC. IX/11/17 P11

GOVERNMENT OF MAHARASHTRA

IV a

IN THE SUPREME COURT OF INDIA

(CIVIL/~~CRIMINAL~~. ORIGINAL/~~APPELLATE~~ JURISDICTION)

I.A.C./C.R.I. M.P. NO. _____ OF 200 2
 S.L.P. (CIVIL/CRIMINAL) NO. _____ OF 200
 W.P./T.P. (CIVIL/CRIMINAL) NO. 47 OF 200 1998
 CIVIL/CRIMINAL APPEAL NO. _____ OF 200

Narain M. Rajeja PETITIONERS

VERSUS

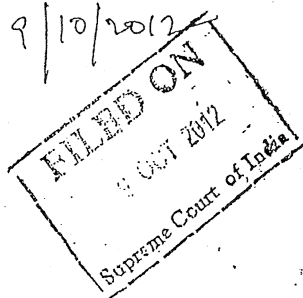
Union of India RESPONDENTS

INDEX OF FILING

S.NO.	PARTICULAR	COPIES	C/F
1	OFFICE REPORT LIMITATION	1+3	
2	COUNTER/REORDER AFFIDAVIT	1+3	
3	SYNOPSIS AND LIST OF DATES	1+3	
4	COPY OF IMPUGNED ORDER	1+3	
5	S.L.P. WITH AFFIDAVIT	1+3	
6	ANNEXURE A1 TO P. 116	1+3	12/2
7	APPLICATION FOR EXEMPTION FROM FILING CERTIFIED COPY	1+3	
8	APPLICATION FOR EXEMPTION FROM FILING OFFICIAL TRANSLATION	1+3	
9	APPLICATION FOR CONDONATION OF DELAY	1+3	
10	APPLICATION FOR STAY	1+3	
11	APPLICATION FOR PERMISSION TO FILE ESTABLISHMENT ADDITIONAL DOCUMENT ON RECORDE Rescure Centre	1+3	12/2
12	VAKALATNAMA WITH MEMO APPEARANCE		
13	PROCESS FEES		27/1

FILED BY

Date: 19/10/2012



(ASHA G. NAIR)

GOVERNMENT ADVOCATE OF THE MAHARASHTRA
 ADDRESS: GOVERNMENT OF MAHARASHTRA
 SADAN COPERNICS MARG, NEW DELHI
 NEW DELHI-110001
 PHONE NO. 01123385689
 MOBILE NO. 9958738352, 9711089214
 CODE NO. 1197 I.C. NO. 3775

IN THE SUPREME COURT OF INDIA.

ORIGINAL JURISDICTION

I.A. No. _____/2012
IN
Writ Petition No. 47/1998

IN THE MATTER OF

NAVIN M. RAHEJA .. PETITIONER

VS

UNION OF INDIA AND OTHERS .. RESPONDENTS.

AND IN THE MATTER OF:

FOREST DEVELOPMENT CORPORATION
OF MAHARASHTRA LIMITED,
Through its Managing Director,
Raval Plaza, Kadbi Chowk,
Kamptee Road, Nagpur
Maharashtra

... Applicants/
Respondents

With

I.A. No. _____ OF 2012

APPLICATION FOR PERMISSION TO ESTABLISH
RESCUE CENTRE

PAPER BOOK

(for INDEX please see Inside)

Sanjay Kharde
Incharge Govt. Advocate
Govt. of Maharashtra
Legal Cell, Maharashtra Sadan,
Copernicus Marg, New Delhi-01
M: 9811130598, 9958738352

RECORD OF PROCEEDINGS

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3.	ANNEXURE-A-2: is the true and correct copy of the Application dated 21.12.2009.	— 13-16
4.	ANNEXURE-A-3: is the copy of the Government Resolution dated 29.11.2011 issued by the Government of Maharashtra.	— 17-24
5.	ANNEXURE-A-4: is the true and correct copy of the undertaking.	— 25-27
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7.	ANNEXURE-A-6: is the true and correct copy of the relevant Extract of Section (2) 39 of the Wild Life Protection Act, 1972 (Amended Act, 2002) and Section 38(H) of Wild Life Protection Act, 1972.	— 62-72

IN THE SUPREME COURT OF INDIA.
ORIGINAL JURISDICTION

I.A. No. _____/2012

IN

Writ Petition No. 47/1998

IN THE MATTER OF

NAVIN M. RAHEJA

.. PETITIONER

VS

UNION OF INDIA AND OTHERS

.. RESPONDENTS

AND IN THE MATTER OF:

FOREST DEVELOPMENT CORPORATION
OF MAHARASHTRA LIMITED,
Through its Managing Director,
Raval Plaza, Kadbi Chowk,
Kamptee Road, Nagpur
Maharashtra

... Applicants/
Respondents

**APPLICATION FOR PERMISION TO ESTABLISH
RESCUE CENTRE AT GOREWADA**

To,

THE HON'BLE CHIEF JUSTICE OF INDIA
AND HIS COMPANION JUDGES OF THE
SUPREME COURT OF INDIA.

THE HUMBLE APPLICATION OF THE
APPLICANT ABOVE NAMED.

MOST RESPECTFULLY SHEWETH:

1. That Applicant Respondent has filed the instant application in Writ Petition No. 47 of 1998, which was listed before the Hon'ble Court, whereby this Hon'ble Court was pleased to dispose off the Writ Petition.
2. That the applicant Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) is a Government company incorporated

of the company is to raise plantation of species of higher economic value in place of low value miscellaneous forest, development of forest, production of different forest produce and treatment thereon and to generate employment in the rural area.

3. That the Government of Maharashtra has leased out an area of 3.93 Lakh hectares of forest land to the Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) for its activities. The Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) has raised plantation of various species over an area of more than three Lakh hectare.

4. The applicant submits that the present applicant is filing the present I.A. in pursuance of the order passed by this Hon'ble Court dated 27.11.2000, wherein this Hon'ble Court was passed order that; "No State Government or Union Territory shall set up a new Zoo without getting clearance from the Central Zoo Authority and Orders from this Court".

ANNEXURE-P-1: is the true copy of the order dated 27.11.2000 passed by this Hon'ble Court in Writ Petition No. 47 of 1998.

5. That the present applicant further states that the Vidarbha Region of Maharashtra State has maximum number of Tigers and Leopards and as per the last Census of 2005 there are 243 tigers and 317 Panthers. The Applicant further states that there are only 25 tigers and 400 panthers in the rest of the Maharashtra State. The Vidharbha Region has an unique privilege of having 4 National Parks and 15 sanctuaries which constitute 3 Tiger Projects. In Chandrapur area alone which is about 125 KMs from

Nagpur is reported to have maximum numbers of sightings of Tigers and Panthers outside the protected area in last 5 years. There are several instances of Tiger and leopards entering into the villages and on account of their entry they are trapped and caged. Since July 2007 to January 2009, so far 24 Leopards and 8 Tigers were put in to the temporary cages by the Forest Department in Chandrapur Area alone. In the year 2008-09 and 2009-10, actually 34 human beings were killed and around 649 were injured by the big cats in Vidarbha Region of Maharashtra State.

6. The Vidarbha Region does not have any big Zoological Park or Rescue Centre in the region barring the Maharajbagh Zoo situated at Nagpur (Maharashtra) being managed by the agriculture University. Considering the ever increasing trends of interface between the cats and human beings, the facility available at Maharajbagh Zoo falls considerably short of the requirement. The present applicant further submits that it is imperative to have Rescue Centers at 2 to 3 strategic places in Vidarbha in no uncertain terms. The proposals for Rescue Centres at Chandrapur and Amravati are under the active consideration of the Forest Department, but in view of the strategic location of Nagpur and it being a gateway to three Project Tier Areas of Maharashtra, a Rescue Centre (over 10 hectares area) at already earmarked site at Gorewada Nagpur is proposed as per the DPR submitted to the CZA vide letter.

7. The applicant submits that the Office of the Principal Chief Conservator of Forest, Nagpur by its letter dated 21st December 2009 bearing no. Desk-22(6)/48/2009-10 Nagpur sought permission from Central Zoo Authority. **ANNEXURE-P-2:** is the true and correct copy of the Application dated 21 12 2009

8. The applicant submits that the State of Maharashtra by its Government Resolution No. WLP-1099/CR-89/F-1 dated 12.12.2005 gave consent to the establishment of National Standard Zoo and Rescue Centre at Gorewada. **ANNEXURE-P-3:** is the copy of the Government Resolution dated 29.11.2011 issued by the Government of Maharashtra.

9. The present applicant submits that the Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) undertakes on behalf of Forest Department of Maharashtra to provide requisite number of experts of various disciplines including a competent Officer in-charge, Animal Curator, Biologist, Veterinary Officer would be posted for the execution of the Rescue Centre at Gorewada, Nagpur. As the State of Maharashtra has taken decision to establish National Standard Zoo at Gorewada, Tahsil and District Nagpur, through Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) by the said Government the copy of which is already filed, the State of Maharashtra authorities Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) and authorized to appoint essential experts on the contract basis and expenditure on this will be incurred from the grant made available from the Government of Maharashtra. The Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) will further ensure that the animal enclosure design and the area provided for various species at the Rescue Centre at Gorewada, Nagpur will be as per the prescribed Rules and guidelines of the Central Zoo Authority. The Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) further undertakes that the necessary funds for creation of the proposed Rescue Centre at Gorewada, Nagpur as well as for the future maintenance of its establishment on professional grounds. The Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) further gives undertaking

that the Rescue Centre shall support the wild animals received due to man animal conflict in the region and wild animal rescue and rehabilitation efforts of the forest Department of Maharashtra. The Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) further gives undertaking that, it shall submit the detail master plan for the long term development of the Rescue Centre at Gorewada, Nagpur for the approval of the Central Zoo Authority on the receipt of necessary clearance from this Hon'ble Court. The Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) further gives undertakes that the responsibility of upkeep and welfare of animals at the Rescue Centre at Gorewada, Nagpur is would be in accordance with the guidelines and the rules notified by the Central Government. The Responsibility will lie on the Forest Development Corporation of Maharashtra Nagpur. Forest Development Corporation of Maharashtra Limited, (FDCM Ltd.) further undertakes that it will execute the establishment of Rescue Centre at Gorewada Nagpur after receiving clearance from this Hon'ble Court not later than one year of receipt of clearance from this Hon'ble Court. **ANNEXURE-P-4:** is the copy of undertaking.

10. It is submitted that the master plan in respect of the entire project has been prepared. **ANNEXURE-P-5:** is the true and correct copy of the master plan. The master plan is in compliance with all the conditions constituted by the Authorities. **ANNEXURE-P-6:** is the true copy of the relevant extract of Section (2) 39 of the Wild Life Protection Act, 1972 (Amended 2002) and Section 38(H) of Wildlife Protection Act, 1972.

//Prayer//

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It is therefore most humbly prayed that this Hon'ble Court may kindly be pleased to;

- a) Grant permission to the Applicant-FDCM for establishment of Rescue Centre at Gorewada, Tahsil and District Nagpur (Maharashtra); and
- b) Grant any other relief to which this Hon'ble Court may deem fit and proper in the facts and circumstance of the case.

AND FOR THIS ACT OF KINDNESS THE APPLICANT SHALL AS IN DUTY BOUND SHALL EVER PRAY.

DRAWN BY:

FILED BY:

(SANJAY KHARDE)
Incharge Govt. Advocate

(ASHA GOPALAN NAIR)
Advocate for the
Applicant/Respondent

Filed on: 19.10.2012
PLACE: NEW DELHI

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IN THE SUPREME COURT OF INDIA
CIVIL APPELLATE JURISDICTION

I.A. NO. _____ OF 2012

IN

WRIT PETITION NO. 47 OF 1998

IN THE MATTER OF :

NAVIN M. RAHEJA

.... PETITIONERS

VERSUS

UNION OF INDIA & ORS

.... RESPONDENTS

AFFIDAVIT

I, Hemant Meshram, S/o Madhav Meshram, Aged about 57 years, Occupation government service, working as Divisional Manager, Gorewada Project, Nagpur, Maharashtra, presently come down to New Delhi to hereby state on solemn affirmation as under:-

1. That I am the Divisional Manager of the Applicant Forest Development Corporation and as per my official capacity I am well conversant with the facts and proceedings of the case, therefore, competent to swear this Affidavit.
2. That I have read and understood the contents of the I.A's i.e.(Application for Permission to establish Rescue Centre and I say that the contents thereof are true and correct to my knowledge.


DEPONENT

VERIFICATION:

I, the above named deponent do hereby solemnly affirm and state that the paras of this affidavit are true and correct to the best of my knowledge and belief.

Verified at New Delhi on this 18th October, 2012


DEPONENT

(SUPREME COURT'S ORDER ON ESTABLISHMENT OF NEW ZOOS)

BY SPECIAL
MESSENGER

D. No 4275 / 1998 / SC/PILC
SUPREME COURT
INDIA
NEW DELHI
DATED: 27th November, 2000

FROM : Inder Pal
Assistant Registrar (PIL. CELL)

TO : Mr. P. R. Sinha,
Member Secretary,
Central Zoo Authority,
Ministry of Environment & Forests,
New Delhi

IN THE MATTER OF :

WRIT PETITION (CIVIL) NO. 47 OF 1998

(Under Article 32 of the Constitution of India)

Navin M. Raheja

.... Petitioner

Versus

Union of India & Ors.

..... Respondents

Sir,

In continuation of this Registry's notice of hearing dated the 3rd November, 2000, I am directed to forward herewith for your information, compliance and necessary action a certified copy of the Order of the Supreme Court as contained in the Record of Proceedings of the Court dated 20th November, 2000, passed in the writ Petition above-mentioned.

Please acknowledge receipt.

Your faithfully,



ASSISTANT REGISTRAR

Encl: as above

SUPREME COURT OF INDIA
RECORD OF PROCEEDINGS

Writ petition (civil) No. 47/1998 (For Direction)

NAVIN M. RAHEJA

Petitioner (s)

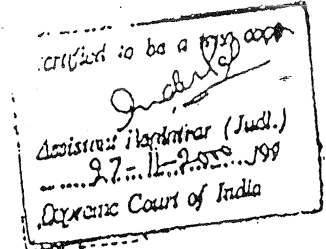
VERSUS

U. O. I. & ORS
(For Direction)

Respondent (s)

WITH

S. L. P. (c) No. 1474/1998
(With appln. for exemption from filling O. T.)
(For further directions)



Date : 20/11/2000 These petitions were called on for hearing today.

CORAM :

HON'BLE THE CHIEF JUSTICE
HON'BLE MR. JUSTICE R. C. LAHOTI
HON'BLE MR. JUSTICE BRIJESH KUMAR

For Petitioner (s) In WP (c) 47/1998

Mr. N. Safaya, adv.
Mr. Navin M. Raheja (in person)
Mr. Randhir Jain, adv.

In SLP (C) 1474/1998

Mr. Prakash Shrivastava, adv.

For Respondent (s)

Mr. Harish N. Salve, SG
Mr. Krishan Mahajan, adv.
Mr. A. D. N. Rao, adv.
Ms. A. G. Nair, adv.
Ms. B. Sunita Rao, adv.
Mr. C. Radha Krishna, adv.
Mr. P. Parmeshwaran, adv.
Mr. B. V. Balram Das, adv.

For Central Zoo Authority

Mr. Harish N. Salve, SG
Mr. A. D. N. Rao, adv.

For State of Rajasthan

Mr. Sushil Kurmar Jain, adv.

For State of Meghalaya

Mr. Ranjan Mukherjee, adv.

For State of Manipur

Mr. K. H. Nobin Singh, adv.

For State of Goa & W. B.

Ms. A. Subhashini, adv.

For State of Arunachal Pradesh

Mr. Anil Shrivastav adv.

ANNEXURE A-2

Office of the Principal Chief Conservator of Forests
Maharashtra State, Nagpur

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No. Desk-22(6)/ 48 /2009-10
Nagpur-440 001, dated 21st Dec. 2009.

To
The Member Secretary
Central Zoo Authority
Bikaner House, Annexe-VI,
Shahajahan Road,
New Delhi-11.

Subject : Proposal for creation of Rescue Centre at the site
earmarked for Gorewada Zoo.

Reference: Govt. of Maharashtra's letter No. WLP-10.09/CR 119/
F-1, dated 23rd November, 2009.

The Government of Maharashtra has decided in principle to establish a zoo of International standards at Gorewada, Nagpur vide the Government resolution dated 12/12/2005. Detailed Project Report (DPR) for establishing zoo at Nagpur has been prepared by the Consultant M/s Bernard Harrison & Friends Ltd. Singapore. Accordingly it is proposed to establish and manage the zoo at Gorewada, Nagpur as per the Guidelines for Establishment and Scientific Management of Zoos in India 2008, issued by the Central Zoo Authority (CZA). The zoo is proposed on the forest area of 1904 ha. at Gorewada adjoining Nagpur city. The following Components are proposed in the zoo complex.

- 1) Sunset safari & Central Plaza.
- 2) Gondwana Biopark. Walking Trails.
- 3) African Safari
- 4) Indian Safari & River ride.
- 5) Gorewada Reserve
- 6) Rescue & Rehabilitation Centre
- 7) Conservation Breeding Centre.

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DPR has been submitted to the CZA vide the letter under reference above and its permission is awaited. In the above DPR a very important component of Rescue Centre (10 ha.) has been proposed by the Consultant in view of the following :

a) Vidarbha Region of Maharashtra State has maximum number of Tigers and Leopards and as per the last Census of 2005 there are 243 (25*) Tigers and 317(400*) Panthers are reported in Vidarbha area of Maharashtra State.

(* Rest of Maharashtra)

b) Vidarbha Region has an unique privilege of having 4 National Parks 3 and 15 sanctuaries which constitute 3 Tiger Projects. In Chandrapur area alone which is about 125 Kms from Nagpur is reported to have maximum numbers of sightings of Tigers and Panthers outside the Protected Area in last few years. There are several instances of tiger and leopards entering in to villages and on account of their entry they are trapped and caged. Since July, 2007 to January, 2009 so far 24 Leopards and-8 Tigers were put in to the temporary cages by the Forest Department in Chandrapur area alone. In the year 2008-09 and 2009-10 actually 34 human beings were killed and around 649 were injured by the big cats in Vidarbha Region of Maharashtra State.

c) Vidarbha Region does not have any big Zoological Park or Rescue Centre in the region barring the Maharajbag Zoo situated at Nagpur being managed by the Agriculture University. Considering the ever increasing trend of interface between the cats and human beings, the facility available at Maharajbag Zoo falls considerably short of the requirement.

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Hence it is imperative to have Rescue Centres at 2 to 3 strategic places in Vidarbha in no uncertain terms. The proposals for Rescue Centres at Chandrapur and Amravati are under the active consideration of the Forest Department, but in view of the strategic location of Nagpur and it being a gateway to three Project Tiger areas of Maharashtra, a Rescue Centre (over 10 ha. area) at already earmarked site at Gorewada Nagpur is proposed as per the DPR submitted to the CZA vide letter referred above. The details of proposals are enclosed for kind perusal and early sanction.

We shall be very grateful if the CZA accords its permission to the proposal. After the receipt the sanction of CZA, further steps will be taken to seek the permission of Hon. Supreme Court in this regard. It is also requested to release part amount of money to undertake the preliminary works of survey, demarcation and preparation of detailed plans and estimates for the above Rescue Centre.

Encl: As above.



(A.K. Joshi)

Principal Chief Conservator of Forests (Wildlife)
Maharashtra State, Nagpur.

Copy fwcs DIG(WL) Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi for information and necessary action.

✓ Copy submitted to the Prinoipal Secretary (Forests) Revenue and Forest Department, Mantralaya, Mumbai-32 for information and necessary action.

Estimate for Rescue Centre at Gorewada, Nagpur			
S.N	Item	Qty.	Amount (Rs)
1	Tiger/ Panther Night Cages	8	1,900,000
2	Tiger/Panther Day cages	8	1,100,000
3	Post Mortem Room (10 x 6 mts.)	1	600,000
4	Incinerator	1	300,000
5	Tube well	1	200,000
6	Water storage tank, pipe line	1	500,000
7	Type III Quarters for Veterinary Officers	1	700,000
8	Type I quarter for Helper to Veterinary Officers	1	450,000
9	Servants quarter Type-I	2	900,000
10	Forester's quarter Type II	1	600,000
11	Medical Treatment Chamber	1	500,000
12	Guard Room	2	500,000
13	Toilet (Double Unit)	1	150,000
14	Construction of Godown/kitchen/store	3	1,350,000
15	Motor Shed (Garage)	1	250,000
16	Watch Tower	1	250,000
17	Entry Gate	1	350,000
18	Chain Link Fencing around the Rescue Centre	L.S.	400,000
19	Chain Link Fencing around restricted area.	L.S..	1,000,000
20	Path around rescue Centre	L.S.	350,000
21	Internal road construction within rescue centre	L.S..	50,000
22	electric line upto rescue centre	1 km.	1,000,000
23	Transformer and electric supply for rescue centre	1	1,200,000
24	Electric Inverter for back up	L.S	100,000
25	Water Conservation Works	L.S	500,000
26	Plantation	L.S.	150,000
27	Tiger/Panther Transport cages	2	200,000
28	Tiger/Panther treatment cages	2	200,000
29	Vehicle for transport of Tiger/Panther	1	750,000
30	Vehicle (jeep)	1	500,000
31	Solar street lights	30	1,500,000
32	Wildlife kit	L.S	75,000
33	Maps, estimates, consultancy fees	L.S	900,000
34	Gardening	L.S.,	175,000
	Sub Total		19,650,000
	Contingency Expenditure 4%		786,000
	Total		20,436,000

Regarding
establishment of 17
International Standard
Zoo at Gorewada in
Nagpur District.

Government of Maharashtra

Revenue and Forest Department

Government Resolution No.: WLP-1009/C.R.119/F-1.

Mantralaya, Mumbai:400 032.

Date : 29 November, 2011.

- Reference :-**
1. Government Resolution No : WLP-1099/C.R.89/F-1, date 12 December, 2005.
 2. Maharashtra Government, Revenue and Forest Department, Mantralaya, Mumbai Government Resolution No : WLP-1007/C.R.140/F-1, date 10 August, 2007.
 3. Government Resolution No : WLP-2004/C.R.52/F-1, date 27 June, 2008.
 4. Principal Chief Conservator of Forest (Wildlife), Maharashtra State , Letter No.: Desk-22(6)/Yo/Gorewada/311/2009-10, date 12 May, 2009.
 5. Principal Chief Conservator of Forest (Wildlife), Maharashtra State , Letter No.: Desk-22(6)/Yo/Gorewada/749/2009-10, date 18 November, 2009.
 6. Principal Chief Conservator of Forest (Wildlife), Maharashtra State , Letter No.: Desk-22(6)/Yo/Gorewada/229/2009-10, date 5 June, 2010.

Introduction:-

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Government has in principle taken decision to establish an International Standard Zoo at Village Gorewada, Taluka Nagpur on 100 to 150 hectare of Forest Land vide reference no. 1. Vide reference no. 2, Ms Bernard Harrison & Friends, Singapore was appointed as Consultant to prepare Master Plan of proposed Zoo. Accordingly, the Consultant submitted Master Plan of Zoo on date 5 May, 2009. As per that Master Plan, establishment of an International Standard Zoo at Gorewada Nagpur has been proposed on 1914 hectare of Forest Land. It has been also proposed to have breeding of endangered species of State and the region and their rehabilitation in their natural habitats. Due to proximity of this project to Nagpur City, Ecotourism will be promoted and that will provide opportunities for employment. In this background, establishment of an International Standard Zoo at village Gorewada, Taluka-District Nagpur was under consideration. Government has taken following decision in this regards.

Government Resolution:-

1) Permission is being granted to establish an International Standard Zoo at Village Gorewada, Taluka-District Nagpur for development of Eco-Tourism and Wildlife Conservation in the State. **This project will be implemented through F.D.C.M. Limited (Forest Development Corporation of Maharashtra Limited Nagpur: a Maharashtra State Entrepreneur).**

2) Main Objectives of Zoo:-

- (1) To promote International Eco-Tourism.
- (2) To promote wildlife conservation (Scientific Breeding of endangered species and release them into nature).
- (3) To promote Research and education on wildlife conservation.
- (4) Rehabilitation of injured, sick and animals seized without having proper license.
- (5) To develop up to date Training Centre for mitigation of man-animal conflicts and to handle such (man-animal conflicts) incidences.
- (6) To promote Nature based education, entertainment and tourism.
- (7) To generate opportunities for employment / self-employment.

3) Following items will be included in this project:

- 1) **Gondwana BioPark:** Establishment of BioPark Depicting Evolution of Earth, Biodiversity on it and wildlife conservation and

- creating walking trails in these BioPark, establishment of Reptile garden and Nature garden for children.
- 2) **Indian Safari:** A Safari will be established for wild animals found in India. Facilities will be made available to visit the safari on Tram.
 - 3) **African Safari:** A Safari will be established for wild animals found in Africa. Facilities will be made available to visit the safari on Tram.
 - 4) **River Ride:** A canal will be prepared for Boat ride for tourists to see wildlife, birds, vegetation, aquatic lives etc.
 - 5) **Gorewada Reserve:** The forest area adjoining to Gorewada Lake will be develop as Gorewada Reserve and wildlife found in Central India will be housed for display. Care will be taken that no cages (enclosures) for animals will be placed in this segment. Water of lake will not be polluted by excreta of wild animals kept in the cages by such care.
 - 6) **Rescue Centre and Breeding Centre:** A Rescue Centre will be established for treatment and rehabilitation of injured animals, sick animals and animals seized without having proper license to keep them. Similarly, a Conservation Breeding Centre will be constructed for breeding of endangered species.
 - 7) **Facilities for Tourists:** Facilities like vehicle parking, restaurants, shops, drinking water, toilets, vehicles needed for visit etc will be developed for tourists visiting zoo. Restaurants and shops within the zoo will be allotted to private operators on lease basis. As far as possible, the facilities for tourists, residential complex for staff/officers and administrative complex will be developed on non forest government land. Only most essential facilities will be taken in the forest area.
 - 8) **Other Infrastructure facilities:** Fodder area, nursery, road, fencing/wall around entire forest area for protection etc will be raised in proposed zoo area. In addition to these, non conventional energy sources like biogas, solar electricity will be used.
 - 9) **Education and Publicity:** To impart the education on importance of wildlife protection and conservation for tourists, school children, teachers and other person arrangements will be developed. Similarly, to attract maximum people to visit the zoo, wide publicity will be given.

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- 10) **Research:** Tie up will be established with local Universities to pursue various researches related to wildlife.

The scope and extent of various activities will be as per the revised project report given by Special Consultant and accordingly project will be implemented.

4) Special Purpose Vehicle:-

- (1) As per the provision made under Article 92(2) of F.D.C.M. Limited, permission is granted for establishing Special Purpose Vehicle for implementation of Gorewada Zoo Project through F.D.C.M. Limited.
- (2) Under Special Purpose Vehicle, a Joint Venture Company of F.D.C.M. Limited and selected Private Entrepreneur will be constituted.
- (3) Government capital share under Special Purpose Vehicle arrangement will be of 51%.
- (4) The responsibilities to construct and maintain various items/facilities at Gorewada Zoo will be of Special Purpose Vehicle. Special Purpose Vehicle will have the right to recruit essential manpower and fix and collect entry fee for zoo.
- (5) In addition to land essential for Gorewada Zoo, Government will provide rupee 50 crore during financial year 2011-12 and rupee 50 crore during financial year 2012-13 each totaling rupee 100 crore as Viability Gap Funding (VGF).
- (6) Government grant will be used for only on capital expenditure. Further maintenance of zoo will be the responsibility of Special Purpose Vehicle.

5) Project Implementation:

- (1) Forest Development Corporation of Maharashtra will submit a proposal to government for 28.37 ha non forest land at Gorewada survey number 2/1, 2/2 and 2/3 for developing tourism on commercial basis. After receiving such proposal, Revenue Department will process it for sanctioning it.
- (2) During financial year 2011-12, budgetary outlay of rupee 20 crore has been made for development work of zoo till the establishment of Special Purpose Vehicle under the head "2406 : Forestry and

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Wildlife". Such provision is sanctioned to be transferred to Principal Chief Conservator of Forests (Wildlife), Maharashtra State, Nagpur. Principal Chief Conservator of Forests (Wildlife), Maharashtra State, Nagpur will do the development works of zoo through F.D.C.M. Limited. This allocation will be released in installments on the basis of progress of development works at various stages.

After constitution of Special Purpose Vehicle, this rupee 20 crore grant and the grants released after it will be treated as Capital Share of that Special Purpose Vehicle.

- (3) **Project Management Consultant** will be appointed by giving wide publicity. In addition to it F.D.C.M. Limited will have liberty to appoint essential specialists on contract basis. The expenditure on it will be incurred from the Government grant of share capital.
- (4) F.D.C.M. Limited will immediately start the construction work of Protection Wall along the area of Gorewada Zoo.
- (5) To develop natural habitat and in situ conservation of wildlife found in the forest area, the Gorewada Reserve area should be developed as sanctuary. For this the works like internal fencing, nature trail, bird watching hut and wildlife habitat development etc which do not attract the provisions of Forest (Conservation) Act, 1980, Wildlife Protection Act, 1972 (Amended from time to time).

6) **Constitution of High Power Committees:**

In the view of importance of this project, sanction is accorded to constitute following committees. Out of which High Power Committee at Ministry level and High Power Committee at Regional level will be in existence till the commencement of the Special Purpose Vehicle established for this project.

(1) **High Power Committee at Secretariat (Ministry) Level**

- | | |
|--|-----------|
| 1. Chief Secretary | Chairman. |
| 2. Principal Secretary (Forest) | Member. |
| 3. Principal Secretary (Finance) | Member. |
| 4. Principal Chief Conservator of Forests (Wildlife) | Member. |
| 5. Managing Director F.D.C.M. Limited | Member. |

This committee will have control over the following: To make provision and review of progress of works related to Viability Gap

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Funding, appointment of Project Management Consultant, Budgetary provision. The committee will have power to select private partner after international bidding. This committee will have right to sanction the works costing more than rupees 2 crore.

(2) Regional Level High Power Committee:

- | | | |
|---|-----------|---------|
| 1. Managing Director, Forest Development Corporation | Chairman. | |
| 2. Additional Chief Conservator of Forest (Wildlife East) Nagpur | Chairman. | Co |
| 3. Divisional Commissioner, Nagpur | | Member. |
| 4. Commissioner, Nagpur Municipal Corporation | | Member. |
| 5. Chairman, Nagpur Improvement Trust, Nagpur | | Member. |
| 6. Collector, Nagpur | | Member. |
| 7. Joint Director (Finance and Treasury), Nagpur | | Member. |
| 8. Chief Engineer Public Work Department, Nagpur | | Member. |
| 9. Director, Gorewada Zoo | | Member |
| Secretary. | | |
| 10. Deputy Director, Town Planning, Nagpur | | Member. |

This committee will take review of Project Management Unit. This committee will have right to give sanction to the expenditure and to accord technical/administrative sanction and accept the tender up to rupees 2 crore for the project works. This committee will have power to provide technical manpower on contract basis for project management unit.

This committee will have power to use available budgeted grants (up to rupee 2 crore) for initial project works like construction of wall to protect the area, to constitute project management unit, appointment of Project Management Consultant.

On the basis of Concept Paper of Detailed Plane Report for implantation of this project, the power of appointment of Consultant within the Country will be with this committee.

- 7) Gorewada Wildlife Trust will be established for scientific breeding of endangered species, research and education regarding conservation of wildlife, rehabilitation of injured, sick and animal seized without license,

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establishment of up-to-date Training Centre for mitigating and handling man animal conflicts.

- 8) Impart Zoo Management Training to Officers and Staff related to establishment Gorewada Zoo. Arrange study tour to existing zoos like proposed Gorewada Zoo.
- 9) Before establishing Special Purpose Vehicle for establishing Gorewada Zoo, arrange workshop for local people representatives, industrialists, nature lovers and incorporate their views regarding it and after that establish Gorewada Zoo.
- 10) Government Resolution No. WLP-1007/C.R. 140/F-1 dated 10th August, 2007 regarding "Gorewada Project Nagpur will work under Authority constituted and Director Gorewada Project, Nagpur will be Associate Member of that Authority" is hereby cancelled. Revised Government Resolution regarding Authority is being issued separately.
- 11) This project will be implemented after final approval from Central Zoo Authority, Supreme Court and if necessary Ministry of Environment and Forest of GOI.
- 12) The expenditure on behalf of Government will be incurred from the Grant made available under the head "2406: Forestry and Wildlife, 01 Forestry (110), Wildlife under Five Year Plan State Plan (00) (12) Preliminary works of proposed Zoo at Gorewada (State) (2406-2259).
- 13) This Government Resolution is being issued after consent of Revenue Department, Planning Department and Finance Department's Informal Reference No.: 304/2011/Expenditure-1, dated 25.11.2011.

In the name of and order of Governor of Maharashtra.

(Vivek Khandekar)

Joint Secretary (Forests)

Revenue and Forest

Department.

To,

Principal Secretary (Revenue), Revenue and Forest Department,
Mantralaya, Mumbai.

Principal Secretary (Finance), Finance Department, Mantralaya, Mumbai.

Principal Secretary Urban Development Department, Mantralaya,
Mumbai.

Principal Chief Conservator of Forests, Maharashtra State, Nagpur.

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Principal Chief Conservator of Forests(wildlife), Maharashtra State, Nagpur.

Additional Principal Chief Conservator of Forests (Budget, Planning and Development), Maharashtra State, Nagpur.

Additional Principal Chief Conservator of Forests (Wildlife) East, Maharashtra State, Nagpur.

Additional Principal Chief Conservator of Forests (Wildlife) West, Maharashtra State, Borivali, Mumbai.

Additional Principal Chief Conservator of Forests (Wildlife) Nashik.

All Chief Conservator of Forests(Territorial)/ All Chief Conservator of Forests (Wildlife).

Divisional Commissioner, Nagpur.

Commissioner, Nagpur Municipal Corporation, Nagpur.

Chairman, Nagpur Improvement Trust, Nagpur.

Collector, Nagpur.

Joint Director (Finance and Treasuries), Nagpur.

Chief Engineer, Public Works Department, Nagpur.

Director, Gorewada Zoo.

Deputy Director, Town Planning, Nagpur.

All Conservators (Wildlife) / All Deputy Conservator of Forests (Wildlife).

Desk Officer (Vyaya-10), Finance Department, Mantralaya, Mumbai-400 032.

Desk Officer (Visu-1), Finance Department, Mantralaya, Mumbai-400 032.

Desk Officer (Visu-1), Planning Department, Mantralaya, Mumbai-400 032.

Accountant General-1/2 (Account and Anundyeyata)/(Account Audit), Maharashtra State, Mumbai/Nagpur.

F-1 desk, Revenue and Forests Department, Mantralaya, Mumbai-400032 (Master File).

(B:\ New F1\ CR WISE\Gorewada GR\Final Gorewada 30.11.2011.doc)



ANNEXURE A-2

25

FOREST DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED
(Govt. of Maharashtra Enterprise)
Office of the Managing Director
Regd. Office: Plot No.12, 'Rawel Plaza' Kadbi Chowk, Kamptee Road
Nagpur-440004

Email:rmwfp_ngp@yahoo.in Phone Nos. (O) 0712-2533442, 2533475, 2555941 Fax : 0712-2551686

UNDERTAKING

Under taking of Forest Development Corporation of Maharashtra on behalf of Forest Department of Maharashtra State with respect to fulfilment of the conditions laid down by the CZA vide its letter F No. 202/2010CZA (VOL.I)(M) date- 28/29.08.2012 for the establishment of the Rescue Centre at Gorewada, Nagpur, Maharashtra State.


Forest Development Corporation of Maharashtra on behalf of Forest Department of Maharashtra is hereby agree to fulfill the conditions laid by the Central Zoo Authority, New Delhi vide its letter F No. 202/2010 CZA (Vol.I)(M) dated 28/29.08.2012, for the establishment of the Rescue Centre at Gorewada, Nagpur, Maharashtra.

- i) That the Forest Development Corporation of Maharashtra Limited Nagpur (a Maharashtra State Entrepreneur) on behalf of Forest Department of Maharashtra gives undertaking to provide requisite number of experts of various disciplines including a competent Officer-in-charge, Animal Curator, Biologist, Veterinary Officer would be posted for the execution of the Rescue Centre at Gorewada, Nagpur. As the State of Maharashtra has taken decision to establish an International Standard

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Zoo at Gorewada, Taluka-District Nagpur, Maharashtra through Forest Development Corporation of Maharashtra Limited Nagpur vide its Government of Maharashtra (Revenue and Forest Department) Government Resolution No.: WLP-1009/C.R.119/F-1, Mantralaya, Mumbai: 400 032. dated 29 November, 2011 (para 1). Establishment of Rescue Centre is envisaged in para 3(6) of the said G.R. F.D.C.M. Limited will have liberty to appoint essential experts on contract basis and expenditure on this will be incurred from the grants made available from Government for capital expenditure as per para 5(3).

- ii) That the Forest Development Corporation of Maharashtra Limited Nagpur will ensure that the animal enclosure design and the area provided for various species at the Rescue Centre at Gorewada, Nagpur will be as per the prescribed Rules and guidelines of the Central Zoo Authority.
- iii) That the Forest Development Corporation of Maharashtra Limited Nagpur will provide necessary funds for creation of the proposed Rescue Centre at Gorewada, Nagpur as well as for the future maintenance of its establishment on professional grounds.
- iv) That the proposed Rescue Centre at Gorewada, Nagpur shall support the wild animals received due to man-animal conflict in the region and wild animal rescue and rehabilitation efforts of the Forest Department of Maharashtra.


- 
- v) That the Forest Development Corporation of Maharashtra Limited Nagpur shall submit the detailed master plan for the long term development of the Rescue Centre at Gorewada, Nagpur for the approval of the Central Zoo Authority on the receipt of necessary clearance from the Honourable Supreme Court.
- vi) That when the Rescue Centre at Gorewada, Nagpur will become ready for operation, shall be made functional formally after getting prior recognition from the Central Zoo Authority under Section 38H of the wild Life (Protection) Act, 1972.
- vii) That the ultimate responsibility of upkeep and welfare of animals at the Rescue Centre at Gorewada, Nagpur in accordance to the guidelines and the rules notified by the Central Government in this behalf will lie on the Forest Development Corporation of Maharashtra Limited Nagpur.
- viii) That the Forest Development Corporation of Maharashtra Limited Nagpur will execute the establishment of Rescue Centre at Gorewada, Nagpur, after receiving the clearance from the Honourable Supreme Court, not later than one year of receipt of clearance from the Honourable Supreme Court.

Encl: 1. Copy of Govt. G.R. dt.29-11-2011
2. Copy of letter of C.Z.A. dt.28/ 29-8-2012

Limited
Place: Nagpur

Date:

Signature
Forest Development Corporation of Maharashtra


(Sarvesh Kumar)
Managing Director



OFFICE OF THE MANAGING DIRECTOR
FDCM LIMITED, NAGPUR
(A MAHARASHTRA STATE ENTERPRISE)

MASTER PLAN FOR RESCUE CENTRE
AT-GOREWADA
NAGPUR

DIVISIONAL MANAGER
GOREWADA PROJECT, NAGPUR

MASTER PLAN FOR RESCUE CENTRE, AT- GOREWADA

NAGPUR

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1. INTRODUCTION

1.01 General Introduction and History

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The geographical area of Maharashtra state is 3,07,717 sq.km spread over 35 Districts, 358 Talukas and 43,711 villages. Out of this 61,939 sq.km area is under forests, amounting to 20.13% to the geographical area. As per the tiger estimation report of 2005 there are 268 tigers and 714 panthers in the State.

The population of Maharashtra is 9.69 crores and it includes 42.43% of urban population. The cattle population is 3.69 crores. Excessive cattle population, growing human population and urbanization, are causing conflicts between humans and wild animals. The cases of tigers/panther/sloth bear/wild boars attacks on humans and domestic animals are noticed frequently. Hence, urgent need is felt to rescue problematic wild animals.

The No. of cases of humans killed or injured during tiger/panther attacks in Vidharbha are as under-

Year	No. of cases of humans killed	No. of cases of humans injured
2005-06	11	234
2006-07	9	213
2007-08	28	184
2008-09	31	508
2009-10	12	310
2010-11	33	457

The comparative statement of no. of cases of attacks by wild animals on humans in the State and Vidharbha region is as under-

Year	No. of cases of humans killed			No. of cases of humans injured			No. of cases of cattle killed/injured		
	In State	In Vidarbha	%	In State	In Vidarbha	%	In State	In Vidarbha	%
2006-07	31	9	29	342	213	62	1818	639	35
2007-08	34	28	82	241	184	76	1799	1218	68
2008-09	46	31	67	726	508	70	5200	1920	37
2009-10	20	12	60	514	310	59	1843	986	53
2010-11	51	33	65	722	457	63	4363	1923	44

During last three years a large number of leopards and orphaned tiger cubs have been rescued and kept in Maharajbag Zoo, Nagpur and in the respective Forest Divisions wherever cages are available. These rescued animals cannot be released and hence they need to be kept in legally created and properly managed Rescue Centers.

The statement showing wild animal rescued during last three years is as under. 31

Year	Tigers		Panthers	
	Adult	Cubs	Adult	Cubs
2007-08	0	0	32	0
2008-09	0	1	42	7
2009-10	3	0	19	2
2010-11	2	0	33	0

In Vidarbha region there is no rescue centre in operation, hence, creation of rescue centre at GOREWADA, R.F. (proposed) comptt. No. 793 is proposed. The area of the proposed rescue centre is 22.75 ha. having less than 0.4 density. It is about 10 kms. away from Nagpur, and is a suitable location for the establishment of rescue centre for the following reasons-

1. It is nearly centrally located for almost all NPs and WLSs of Vidharbha. Rescued/trapped animal can be moved within 5 hours from all over Vidharbha.
2. It is well connected by roads
3. Animals can get medical aid within time, from Maharashtra Animal husbandry and Fisheries University, Nagpur
4. Necessary medicines and equipments are available in Nagpur
5. Site of Gorewada is suitable habitat for rescued wild animals.

1.02 Objectives

- a. All seized, rescued, sick or injured animals shall be brought for treatment and subsequent release in the wild.
- b. All rescued/abandoned young wild animals not fit for release shall be reared in the rescue centre.
- c. Study and scientific research on behavior of the rescued wild animal.

1.03 Topography of Area

The topography of the site is gentle slope to undulating. The plateau landform ranges from 340 to 350 m. above MSL. The scattered weathered materials mainly consists of boulders, at some part created rough topography.

Near to the proposed site, Gorewada Lake is situated which provides drinking water to citizens of Nagpur.

The proposed site is classified as Southern Tropical Dry Deciduous Forests (5A/C3) according to Champion's and Seth's Classification of forests.

1.04 Geology

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The study of geology broadly reveals the Basalt originated in Deccan Trap associated with sediments belonging to lower Eocene to Upper Cretaceous.

1.05 Rock and Soil

Basalt originated in Deccan Trap, soil is shallow, well drained clayey with moderate erosion. The texture of soil is clayey in nature.

1.06 Flora & Fauna

The site consists of local flora as well as it is supplemented with artificial plantation using local species. The main species found within this site are enlisted as below-

TREE SPECIES (Vernacular Names shown in bracket)

Acacia nilotica (Babhul), *Acacia catechu* (Khair), *Albizzia lebbek* (Kala Siras), *Albizzia procera* (Safed siras), *Azadirachta indica*(Neem), *Salmallia rubra* (Semal), *Butea monosperma*(Palas), *Cassia siamea* (kashid), *Boswellia serrata*, *Cleistanthus collinus* (Garadi), *Dalbergia sisoo* (Sisoo), *Gmelina arborea* (Shiwan), *Hardwickia binata* (Anjan), *Eucalyptus spp.* (Nilgiri), *Leucenea leucocephala* (Subabul), *Semecarpus anacardium* (Biba), *Soyamida febrifuga* (Rohan) *Cassia fistula* (Amaltas)

SHRUBS

Anona squamosa (sitaphal), *Lantana camara* (Ghaneri), *Zyziphus eonoplea*(Yeruni), *Andrographis paniculata*(Kalmegh), *Holorrhina antidysentrica*(Murud sheng).

HERBS

Acheranthus aspera(Aghada), *Cassia tora* (Tarota), *Eclipta alba* (Bhringraj), *Hiptis suaveolens*(Rantulas), *Tridax procuberans* (kambarmodi)

CLIMBERS

Hemidesmus indicus(Khobarwel), *Ipomea quamoclite*(Ganesh pushp), *Mucuna puriens*(Khaj koeli), *Cascuta reflexa* (Amarwel), *Tinospora cordifolia* (Gulvel), *Abrus precatorius*(Gunj)

GRASSES- *Andropogon cantottus*, *Schima nurvosum* etc.

FAUNA – The fauna of the area enlisted as below-

MAMMALS

Rottus rottus (Black rat), *Mus moschur* (House mouse), *Funabules pennant* (Squirrel), *Herphthese edwardsii* (Common Indian mongoose), *Presbytes enteculus* (Common Indian langur), *Bosephalles tagocanelus* (Neelgai)

BIRDS

Common kingfisher, White throated kingfisher, Asian Koyal, Grey hornbill, Spotted dove, serpent eagle, Buzzard, Kite, Peacock

REPTILES

Calote versicolor (garden lizard), *Veranus monitor* (Monitor lizard), *Ptyas mucosus* (Rat snake)

AMPHIBIANS-*Rana tigrina* (Frog), *Bufo bufo* (Toad)

MOLLUSCA-*Achantina fulica* (Gaint African snail)

OTHER LOWER PHYLLUM FAUNA

Spider, Yellow spider, Crab spider, Long tailed celler spider, Hipposa spider, Skimmer, colour winged dragonfly, Desrt locust, cricket

1.07 Climate

Summer is hot and dry. The maximum temp. goes up to 46.8° c while in winter the minimum temp. goes down to 6.6° c.

1.08 Rainfall

The rainfall is received from the south-easterly monsoon, from mid- June to Oct. Average annual rainfall of this region is approximately 1064.10 mm. The no. of rainy days are 45-65.

1.09 Season

Two distinct seasons are observed i.e. summer and winter.

1.10 Approach

The proposed site is about 10 kms. away from Nagpur city and it is situated on State Highway No. 248 connecting Nagpur to Kalmeshwar and Warud.

1.11 Demography of Surrounding Area

Nagpur District	Year 2001
Total population	40,67,637
Area in Sq. Km.	9802
Density of population	414/sq.km.
No. of villages	1874

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The proposed site is bounded by forests on eastern and southern side, while boundary of Fetri village is on western side and boundary of Mahurzari village on North side. The demographic data of nearby villages is as under-

Particulars	Fetri Village	Mahurzari Village
Population	1958	1745
Male	1047	900
Female	911	845
Area in ha.	448.16	1686.67 ha.
Agricultural land	238.20	1046.92 ha.
Cattle population	726	1110
School	2	1
Banks	1	1
Gram panchayat	1	1
Primary health centre	1	1
Livestock Dispensary	1	0

1.12 Legal Status of the Land

The proposed site is part of R.F. (proposed) and owner is State Forest Department.

1.13 Sources of Pollution

The site is away from Nagpur and selected strategically. Water pollution is negligible as there are no streams or nallas carrying sewage water from the nearby villages. Industrial zone is also not in the vicinity, therefore the site is almost free from air pollution.

2. APPRAISAL OF PRESENT ARRANGEMENT AND CONSTRAINTS

35

Not applicable because the Rescue Centre is proposed for the first time.

- a) Animal Section-
 - Veterinary Section
 - Store and feed supply section
 - Sanitation section
 - Maintenance section
 - Security Section
 - Water supply section
 - Disposal of solid waste and liquid waste sewerages
 - Visitor's amenities
 - Lawn and Gardens-

Collection Plan- Presently the problem animals are rescued by the concerned forest officers of the forest divisions and taken care of with the help of local vet. Officer.

- a. General Zoo administration section
- b. Research
- c. Conservation Breeding
- d. Education Awareness

34

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Visitor's amenities

Lawn and Gardens-

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a. General Zoo administration section

b. Research

c. Conservation Breeding

d. Education Awareness

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PART II

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I. FUTURE OBJECTIVE

- a) All seized, rescued, sick or injured animals shall be brought for treatment and subsequent released in the wild
- b) All rescued/abandoned young wild animals not fit for release shall be reared in the rescue centre.
- c) Study and scientific research on behavior of the rescued wild animals.

To achieve these objectives of Proposed Rescue Centre the following infrastructure is proposed to be developed.

- I. Construction of wall on the perimeter along with chain link fencing prescribed around Rescue Centre.
- II. The Enclosures shall be fenced with Chain link fencing.
- III. Internal Roads
- IV. Office Building with Vet. Hospital
- V. Staff Quarters
- VI. Enclosures
- VII. Open well with overhead tank (Proposed at elevated point of rescue Centre)
- VIII. Transport cages
- IX. Treatment Cages
- X. Path around enclosures
- XI. Landscaping restricted to the enclosures to give the natural habitat to animals
- XII. Sanitation and drainage system
- XIII. Fire Extinguishing System
- XIV. Deep freezers for storing the food for carnivores
- XV. Feeding equipment
- XVI. Telecommunication and electronic equipments
- XVII. Incinerator
- XVIII. Post Mortem room
- XIX. Guard Room with watch tower (For the restrictions of the unauthorized entries in the Rescue Centre as well as to prevent fire from the adjoining forest areas)
- XX. Plantations /Landscaping

2. FUTURE ACTION PLAN

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2. a Proposed animal collection plan including population size and justification of keeping the endangered species-

TIGERS- Vidarbha is having substantial tiger population within and outside the PAs. Much number of cases of tiger attack on humans/cattle are occurring in Chandrapur Dist and also in and around Nagpur. The problem animals from these areas need to be brought to the rescue centre to avoid further incidences of attacks.

The numbers of enclosures to be established in the Rescue Centre are two with a capacity to keep 10 tigers.

As per the norms of CZA total area required is 5120.00 sqm. including feeding cubicles. The total area earmarked for tigers is 0.6 ha.

PANTHERS- Panther, living near human habitations invariably come into conflict with and they attack cattle and humans. The enclosures proposed for the panthers are four with a capacity to keep 20 panthers.

As per the norms of CZA total area required is 4550.00 sqm. including feeding cubicles. The total area earmarked for Panthers in rescue center is 0.5 ha.

SLOTH BEAR- One enclosure with five cubicles is proposed for sloth bear in the rescue centre.

As per the norms of CZA, total area required is 2560.00 sqm. including feeding cubicles. The total area earmarked for sloth bears in rescue center is 0.3ha.

UNGULATES/DEER- Seized, injured, sick animals shall be kept in rescue centre for the treatment for which 2 enclosures are proposed to accommodate 20 deers.

As per the norms of CZA, total area required is 5100 sqm. including feeding cubicles. The total area earmarked for ungulates/deer in rescue centre is 0.6 ha.

SMALL MAMMALS (Jackal, Wolf, Wild dog etc.) -Seized, injured, sick animals shall be kept in rescue centre for the treatment for which one enclosure is proposed to accommodate 10 animals.

As per the norms of CZA, total area required is 1500 sqm. including feeding cubicles. The total area earmarked for small mammals in rescue centre is 0.2 ha.

MONKEYS/LANGURS- One enclosure is proposed to keep 10 Seized, injured, sick monkeys in rescue centre for the treatment.

As per the norms of CZA total area required is 1500 sqm. including feeding cubicles. The total area earmarked for monkeys /langurs in rescue centre is 0.2 ha.

BIRDS / AVIARY—Seized, injured, sick birds may be kept in rescue centre for the treatment. 1 enclosure inside water pond is proposed.

As per the norms of CZA total area required is 300 sqm. including water pond of 60 sq.m. size with 1.5 mt. depth. The total area earmarked for birds in rescue centre is 0.05 ha.

Reptiles/Snakes –Seized Python/Cobra/Rat Snake/Viper may be kept in rescue centre for the treatment. One enclosure for Python and two enclosures for Cobra/Rat Snake/Viper including water body inside enclosure are proposed.

As per the norms of CZA total area required is 154 sqm. including water body of 14 sq.m. size. The total area earmarked for reptiles and / snakes in rescue centre is 0.02 ha.

TOTAL AREA OF THE ENCLOSURES REQUIRED FOR THE ANIMALS

Sr.No.	Species	No.	Total area of enclosures (in.s.qm.) required as per norms	Total area of feeding /retiring cubicles (in. s.qm.) required as per norms
1	Tiger	10	5000 (2 enclosure)	120(10 cubicles)
2	Panther	20	4400 (4 enclosure)	150 (20 cubicles)
3	Sloth Bear	5	2500 (1 enclosure)	60 (5 cubicles)
4	Ungulates/Deer	20	5040 (2 enclosure)	60 (20 cubicles)
5	Small mammals (jackal, hyena, wolf, wild dog)	10	1470 (1 enclosure)	30 (10 cubicles)
6	Monkeys and langurs	10	1470 (1 enclosure)	30 (10 cubicles)
7	Birds/ Aviary	Mixed species	300 (1 enclosure)	60 (water body with 1.5 metre depth within enclosure)
8	Reptiles a) Python b) Cobra/Rat Snake/Viper		60 (1 enclosure) 80 (2 enclosure)	6 sq.m. water body 8 sq.m. water body

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2.b Description of lay out plan of Rescue Centre (Lay out map in scale of 1:2000 is attached herewith)—Proposed enclosure shown in blue colour.

The layout of the Rescue Centre shown in the 1:2000 scale map having 1 meter contour interval. The following features, approach road, enclosures, wall, chain-link fencing, wells, residential buildings, landscaping area, plantation area, path, veterinary hospital, internal roads, are shown on the map

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A MAP
Description of lay out plan of Rescuer Centre
(Lay out map in scale of 1:2000 is attached herewith) –
Proposed enclosure shown in blue colour.

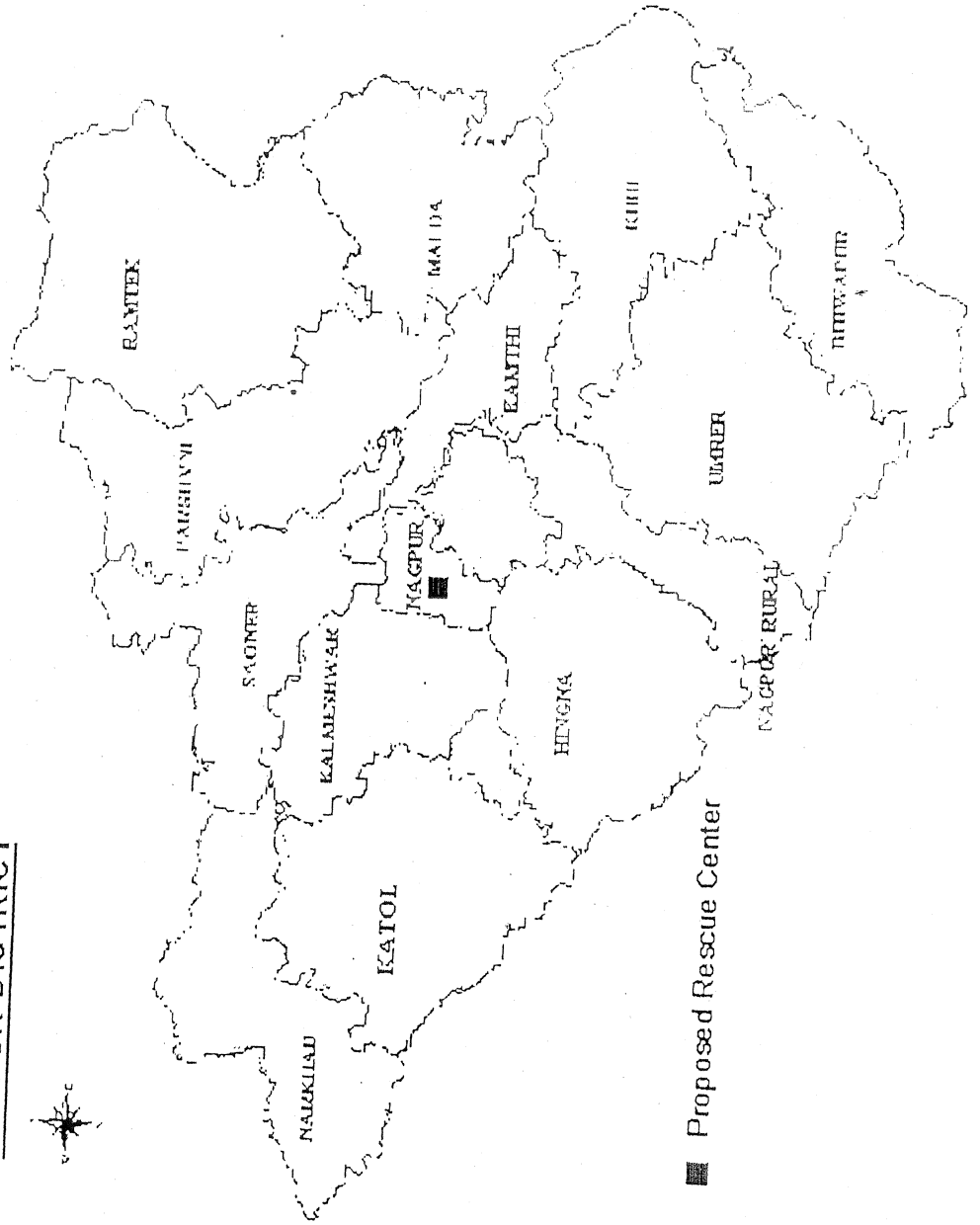
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PROPOSED AND EXISTING RESCUE CENTRES IN MAHARASHTRA



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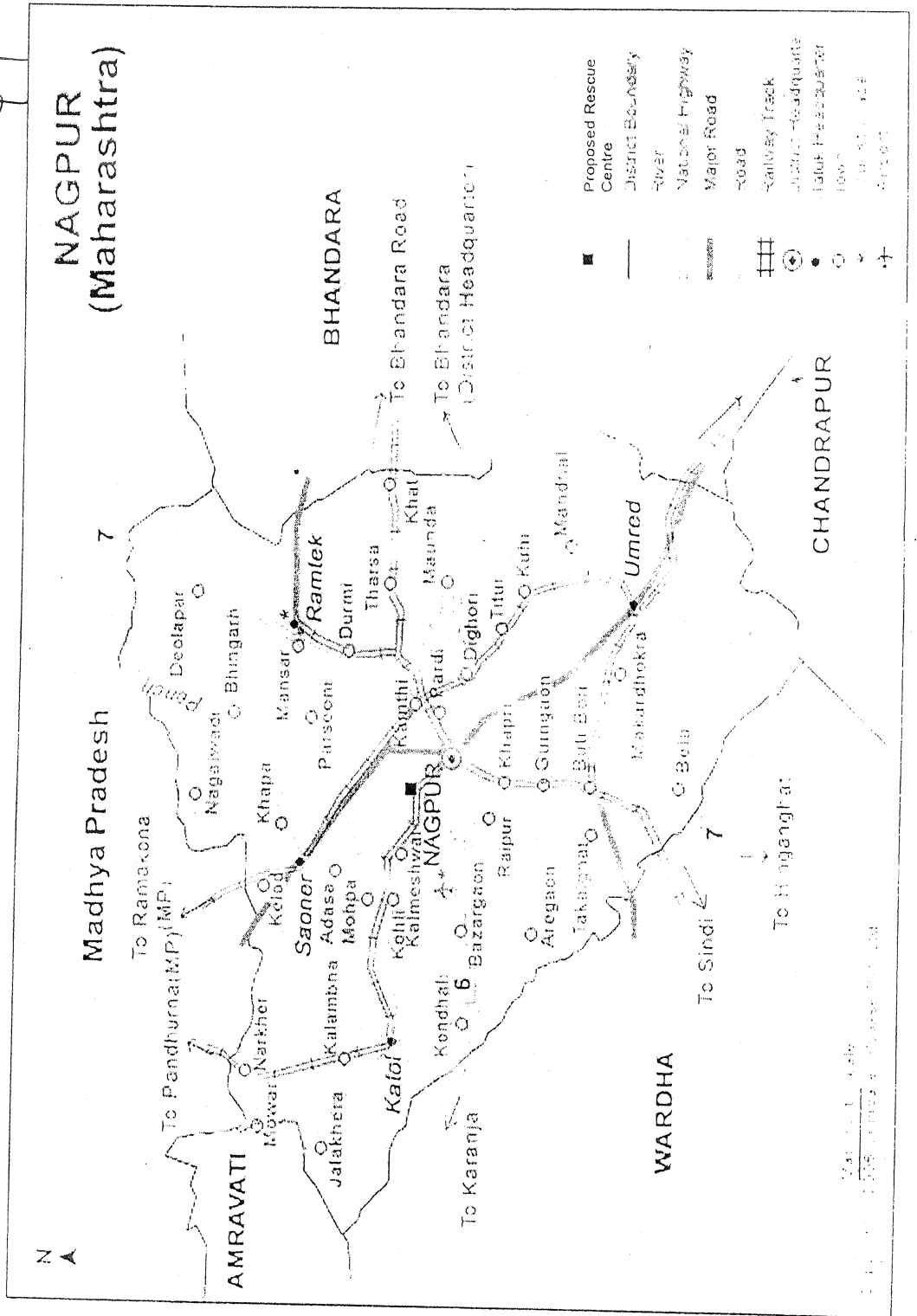
NAGPUR DISTRICT



■ Proposed Rescue Center

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NAGPUR (Maharashtra)



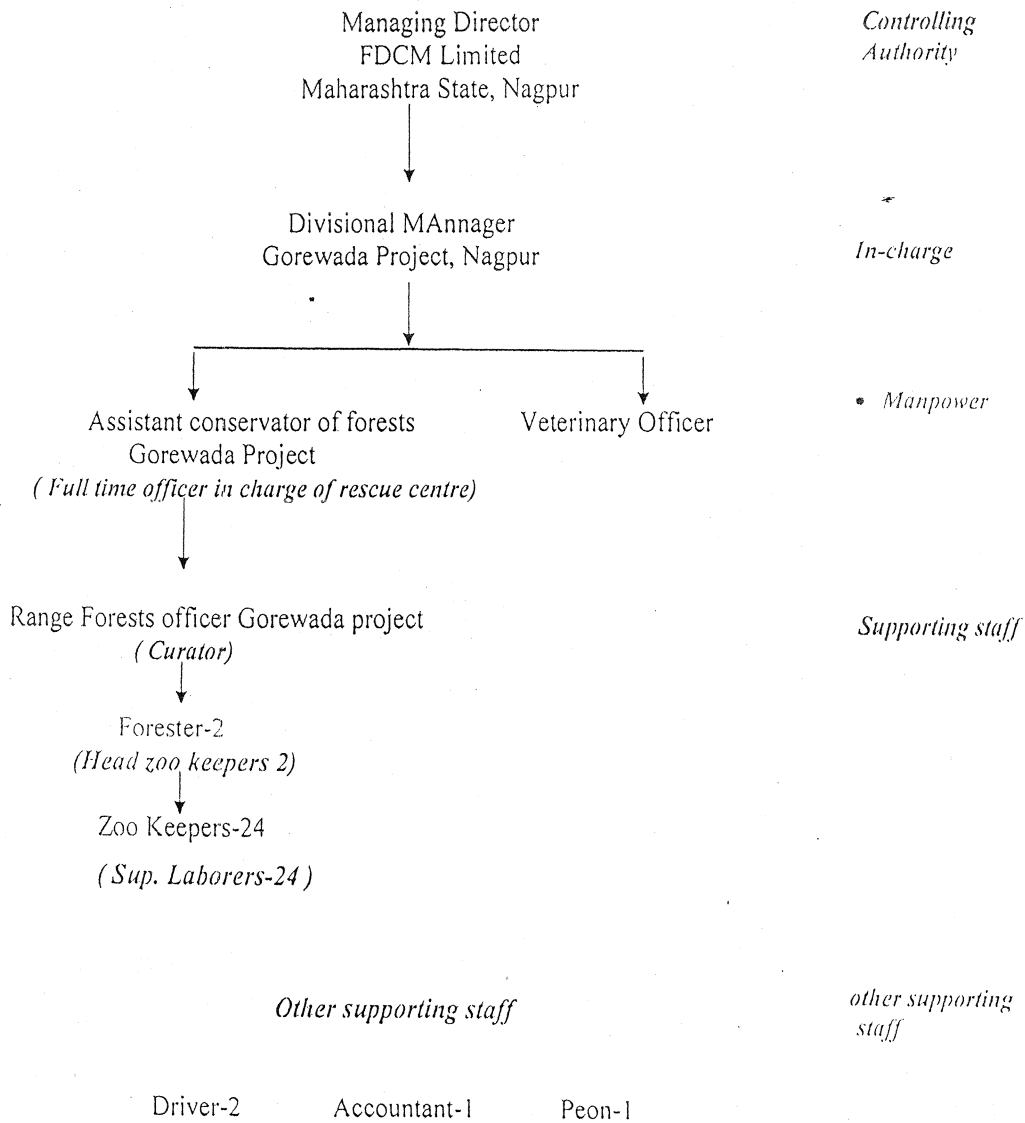
Scale 1:50,000
Survey of India

3. PERSONNEL PLANNING

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3.a Administrative and staffing pattern

The administrative and the other staffing pattern have been proposed for smooth running the Rescue Centre.



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The controlling authority of the rescue centre will be the Managing Director FDCM Limited, Maharashtra State, Nagpur

An in-charge of the rescue centre will be the Divisional Manager, Gorewada Project, Nagpur. An administrative and financial power has been delegated to purchase feed and medicine and carry out emergency repair of animal enclosures and other works related to the rescue centre.

The full time officer in charge of the rescue centre will be the Assistant Conservator of Forests, Gorewada Project, Nagpur. He will be responsible for the smooth functioning of the rescue centre, proper house keeping and healthcare of the animals and proper management. He will be responsible for assigning duties to the personnel, as the directions given by the incharge of rescue centre.

One curator (Range Forest officer) is proposed for the rescue center.

The curator will be responsible for the up keep and maintenance of animal housing, including timely cleaning and disinfection of animals enclosure cubicles, timely feeding of animals as per prescribed schedule and manner, keeping a close watch on the general health of the animals and taking measures for treatment of sick animals on the priority, including shifting and transportation within the rescue centre.

The veterinarian will be visits daily to animal enclosures and assessing general health condition of the animals. He will check the quality of the feed supplied to animals. He will assess the quality of feed and schedule of feeding to the animals and timely screening of animals for parasitic loads. He will prepare the disinfection schedule prophylactic treatment schedules and ensuring the implementation. Taking steps for timely restraining and treatment of sick animals, maintenance of record of treatment of sick animals. He will maintain the record of treatment given to sick animals. He will conduct the postmortem of animal die and conclusion to be made regarding the reasons of death and strategies to minimize the death rate. He should be responsible for the supervision the process of shifting and transportation the animals.

Foresters and Supernumerary laborers are proposed as the supporting staff to the curators and veterinarian.

Foresters will be designated as head zoo keepers and Supernumerary laborers as zoo keepers. The zoo keepers are proposed for the feeding to animals, cleaning of enclosures, assists during treatment of animals, shifting and transportation of animals, watch and ward etc.

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In the absence of the in-charge of Rescue Centre all duties will be performed by the curator. In the absences of the curator, the duties of the curator (Range Forest Officers) will be performed by the head zoo keeper (Forester), in case absence head zoo keeper, one of the senior men among the zoo keeper will be performed the duties of head zoo keeper.

Chain of Commands

All the directions to run the rescue centre, issued by the Managing Director, FDCM Limited Maharashtra State, Nagpur will be binding to all the functionaries of the Rescue Centre. He will be the controlling authority.

The Divisional, Gorewada Project, Nagpur will be responsible for reporting and promptly dealing with the matters pertaining to maintenance and functioning the rescue centre to the Managing Director, FDCM Limited, Maharashtra State, Nagpur

In-charge of the rescue centre, the Assistant Conservator of Forests, Gorewada project will report all the matter pertaining to the rescue centre, to the Divisional Manager, Gorewada Project, Nagpur and will take further directions for smooth running.

The curator (Range Forest officer), foresters (head zoo keepers), zoo keepers will functions under the directions of an in-charge officer (Assistant Conservator of Forests).

The Curator, head zoo keepers, zoo keepers, will assists to the Veterinarian during treatment of animals, shifting & transpirations of animal's postmortem of animals and in disposals of carcasses.

One accountant is proposed for the report preparation, record up keeping of animals and preparation of expenditure accounts etc.

Two Drivers are proposed, one for the Jeep and another for the rescue van.

One peon is proposed for the distribution of office mails.

Twenty four supernumerary laborers one proposed for cleaning the enclosures. cubicles assists to veterinarian during treatment, feeding to animal watch and ward etc.

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3.b Existing Staff :

Not applicable .The Rescue Centre is proposed for the first time to create at Gorewada , Nagpur .

3.c Staff Proposed for the Management of Rescue Centre :

The following staff is proposed exclusively for the management of the Rescue Centre-

Sr. no.	Designation	No. of posts proposed	Pay scale	Salary for one year
1.	Assistant conservator of forests (full time in charge of the Rescue Centre)	1	9300-34800+5000*	6.50
2.	Veterinary Officer (Full Time)	1	9300-34800+5000	6.50
3.	Range forest officer (Curator)	1	9300-34800+4400	5.50
3	Forester (Head zoo keeper)	2	5200-20200+2400	6.00
4	Supernumerary laborers (Zoo keepers -24)	24	4440-7440+1300	48.00
5	Accountant	1	5200-20200+2800	3.50
6	Driver	2	5200-20200+1900	6.00
7	Peon	1	4440-7440+1300	2.00
	<i>Total</i>	33		84.00

3.d For the management of proposed rescue centre there is no need to create new posts. However services of compounder and other maintenance staff – welder, Mason, Carpenter, Electrician, Plumber etc, will be outsourced as per the necessity as the city of Nagpur is quite nearer to proposed rescue centre.

4. DISASTER MANAGEMENT

50

- A. Fire control—Each building and enclosure shall be provided with water storage facilities, apart from regular cutting of fire lines around the building and enclosures.
- B. Flood—The site is elevated place and no big nallah or streams flowing adjoining to this site, hence there is no threat from the floods.
- C. Cyclone Situations- For the past several years no incidence of cyclone has been noticed in this region.
- D. Law and order break down —Break of the law and order situations may hamper the transport of meat, therefore, cold storage facility is proposed to store meat as buffer stock.
- E. Feed Supply- Meat shall be obtained from a reputed butcher. Grass shall be stored in a storage shed.

For the carnivores, the meat will be proposed procure from for the abattoirs authorized by Nagpur Municipal Corporation. The following abattoirs are located in the jurisdiction of Nagpur Municipal Corporation.

1. Bhandewadi : Capacity 150-200 no. of Buffallows /day
2. Boriyapura : Capacity 150-200 no. of Goats per day
3. Gaddigodam : Capacity 50 no. of Goats per day

For the reptile and Snakes, feed will be made available from the local poultry farm to the python and mice from the local area for the cobra/viper/rat snakes.

Details of feeding plan is given in the following table

51

Sr. no	Animal	Target No.	Average No.	Feeding items	No out days	Forenoon	Afternoon	Total quantity	Rate in Rs.	Total Rs. in lakh
1	Tiger	10	5	Meat	365	0	10kg/day	18250kg	150	27.37
2	Panther	20	10	Milk	365	0.5 lit/day	5kg/day	1825 lit	30	0.55
				Beef	365			18250 kg	100	18.25
3	Small mammal (Jackal and hyna)	10	2	Beef	365	-	2 kg	3650 kg	100	3.65
A	Total									49.82
4	Sloth bear	5	02	Bread	365	250 gm/day	250 gm/day	365 kg	70	0.26
				Banana	365	1 No.		730 No.	3	0.02
				Milk	365	0.5 lit/day	-	730 lit	30	0.20
				Tomato	365	100 gm/day	0.5 lit	73 kg	20	0.01
				Carrots	365	250 gm/day		182.5 kg	5	0.09
				Sweet lime	365	1 No.	-	730 No.	2	0.01
				Guava	365	100 gm/day	-	73 kg	50	0.04
				Honey	365	50 gm/day		36.5 kg	300	0.11
5	Deer	20	10	Cattle feed	365	500 gm/day	-	1825 kg	100	1.83
				Para grass	365	5 kg	-	18250 kg	10	1.83
				Green grass	365		-			
6	Monkeys and langurs	10	5	Bengal gram	365	75 gm	-	137 kg	50 kg	0.07
				Apple	365	0.5 No.	0.5 No.	1825 No.	10	0.18
				Banana	365	2 No.	2 No.	7300 No.	3	0.22
				Carrots	365	50 gm/day	-	91.25 kg	50	0.05
				Cabbage	365	25 gm/day	-	46 kg	25	0.01
				Sweet lime	365	1 No.	-	1825 No.	2	0.04
				Palak	365	50 gm/day	-	91.25 kg	20	0.02
				Bread	365	-	3	5475 slices	1	0.06
B	Total									5.05
7	Birds	100								
	1. Parakeets	50		Poultry feed	365	50 gm/day	-	912.5 kg.	100	0.92
	2. Perching birds	20		Palak	365	50 gm/day	-	365 kg	25	0.09
	3. Birds of prey	20		Beef	365	100 gm/day	-	730 kg	100	0.73
	4. Aquatic birds	10		fish	365	300 gm/day	-	1095 kg.	50	0.56
C	Total									2.30
8	Python	2		1 Chicken/Week	52 weeks			100 Chickens	200	0.20
	Cobra/Rat snake/Viper	4		1 mouse or Frog /Week	52 weeks			200 mice/Frog	20	0.04
D	Total									0.24
	A+B+C+D=Total									57.41

*Feeding schedule from Maharaj Bag Zoo, Nagpur and Nehru Zoological park, Hydra bad.

*The food for the carnivores is proposed to be procured from the local certified butcher houses (abattoirs)

5. CONTINGENCY PLAN

5.1 Animal Rescued from Wild

In order to rescue any animal from wild, Gorewada rescue centre is proposed to be equipped with a rescue van well equipped with tranquilizers, trap cages and other necessary appliances and equipments used for the medical treatment and transport of animals.

5.2 Escape of animals from Enclosures-

The perimeter wall of 2 meter height is provided outside the rescue centre to prevent any such incidences. The staff provided for the rescue centre will be trained for such situations.

5.3 Monkey and Dog Menace-

Monkeys and dogs are can not enter not be inside the Rescue Centre.

5.4 Arrangement of Food in case of Strike –

The meat is available in plenty in local market of Nagpur. In case of non-supply of food, storage facility is provided in the plan as an alternative arrangement for feeding animals.

5.5 Snake bite-

The staff will be trained to catch the snakes spotted inside Rescue Centre. As a prevention measure, anti-venom serum shall be stored.

5.6 Visitor Getting Injured-

Not applicable

5.7 Fighting among animals-

Carnivores will not be kept in a group in a single enclosure.

5.8 Epidemics-

The rescued animals will be isolated for some time and then moved into enclosure. The rescued animal will be provided with all necessary medication to prevent diseases.

5.9 Break Down of Power Supply-

In case of longer break down in power supply the generator of capacity 18KV is proposed for the Rescue Centre.

6. CAPACITY BUILDING

SB

Staff provided for the Rescue Centre will be imparted trainings for handling of rescued animals and also visits to other established Rescue Centre shall be organized.

The following type of training programmers are broadly identified

- A. Tranquillizing the animal
- B. Transportation of animal from field
- C. Vaccination
- D. Feeding & Nutrition
- E. Record keeping
- F. Photography & Videography
- G. Hygiene of animals

7. E-GOVERNANCE

All records pertaining to every wild animal shall be kept in the Computer and closely monitored. The enclosures will be provided with close circuit TV equipment to record the movement and behavior of the animals. The CCTVs will be installed after the functioning of the Rescue Centre.

8. BROAD BUDGET ANALYSIS FOR IMPLEMENTING THE PLAN

54

8.1 NON RECURRING EXPENDITURE

Construction and Development

The infrastructure development for the rescue centre includes buildings and purchase of materials, machines and vehicles, equipments, appliances, amenities services

A. Residential Buildings

Sr. no.	Type of Buildings	No.	Rate per unit in Lakh	Total Estimated cost Rs. In lakh	Provision of funds	Proposed Grants	Year of construction proposed
1	Type III	2	10.40	20.80	State Plan	20.80	2011-12
2	Type II	2	9.30	18.60	"	18.60	2011-12
3	Type I	5	7.50	37.50	"	37.50	2011-12
5	Guard rooms with *watch tower	1	3.00	3.00	"	3.00	2011-12
	Total	10		79.90		79.90	

*Watch Tower with guard room is proposed for the purpose, to restrict the unauthorized entries and also to prevent the fire enter in the premises of the rescue centre.

Residential Building Abstract

	Year 2011-12	Year 2012-13	Year 2013-14	Total
Amount	79.90	00	00	79.90

B Non-Residential Buildings and other works

55

Sr. No	Type of Construction	No.	Rate per unit in Thousands	Total Estimated cost Rs. In lakh	Provision of funds	Proposed Grants	Year of construction proposed
1	Construction of Brick Wall around R.C. 2mt. Height	2000 Rmt.	4	80.00	State plan	80.00	2011-12
2	Chain link fencing around R C Inside Brick wall	2000 Rmt.	1	20.00	"	20.00	2011-12
3	Internal Roads Earthen Roads	1500 Rmt	1	15.00	"	15.00	2011-12
4	Office Building	1	1175	11.75	"	11.75	2012-13
5	Store Room	1	500	5.00	"	5.00	2012-13
6	Deep freezers	5	100	5.00	"	5.00	2012-13
7	Generator /Transformer/Electrical Room	1	200	2.00	"	2.00	2012-13
8	Treatment Chamber	1	200	2.00	"	2.00	2012-13
9	Kitchen Room	1	150	1.50	"	1.50	2012-13
10	Well with overhead tank	1	1700	17.00	"	17.00	2011-12
11	One Borwell	1	150	1.50	"	1.50	2011-12
12	Post mortem Room & *incinerator	1		6.00	"	1.00	2012-13
						5.00	2013-14*
13	Vehicle shed	1	300	3.00	"	3.00	2013-14
14	Path around enclosures	2000	250	5.00	"	5.00	2012-13
15	Fodder plantation	Sha.	25	1.25	"	1.25	2011-12
16	Tree Plantation	L.S.		7.50	"	3.50	2011-12
					"	4.00	2012-13
17	Soil & water conservation works	L.S.			"	2.50	2011-12
						2.50	2012-13
18	Landscaping	L.S.		10.00		10.00	2013-14
	Total					198.50	

*Incinerator is proposed but will be procured as and when required.

Non-Residential Building Abstract

	Year 2011-12	Year 2012-13	Year 2013-14	Total
Amount	140.75	39.75	18.00	198.50

56

C SERVICES

Sr n o.	Type of Services	No.	Rate per unit in lacs	Total Estimated cost Rs.In lakh	Provision of funds	Proposed Grants	Year of construction proposed
1	Water supply * System with pipe lines and OHWT	1	10.00	10.00	State plan	5.00	2012-13
						5.00	2013-14
2	Sanitation System with drainage lines upto main sewerage line of Nagpur	1	10.00	10.00	"	10.00	2013-14
3	Electrical supply	1	10.00	10.00	"	5.00	2012-13
					"	5.00	2013-14
4	Telecommunication system	1	5.00	5.00	"	5.00	2013-14
5	Computers, CCTV*	1	10.00	10.00	"	10.00	2013-14
6	Fire extinguishing system	1	3.00	3.00	"	3.00	2013-14
	Total					48.00	

*CCTVs are proposed but will be procured at the later stage of functioning of the rescue centre

Services Abstract

	Year 2011-12	Year 2012-13	Year 2013-14	Total
Amount	0	10.00	38.00	48.00

D. EQUIPMENTS, ENCLOSURES, VEHICLES

57

Sr. no.	Type of Services	No. of enclosures	No. of cubicles	Rate per unit in lacs	Total Estimated cost Rs. In lakh	Provision of funds	Proposed Grants	Year of construction proposed
1	Enclosures for tigers with cubicles	2	10	50	100	State Plan	100.00	2011-12
2	Enclosures for Panthers with cubicles	4	20	35	140	"	140.00	2011-12
3	Enclosures for sloth bear	1	5	40	40	"	40.00	2011-12
4	Enclosures for deer	2	20	10	20	"	20.00	2011-12
5	Enclosure for small mammals	1	10	6	6	"	6.00	2011-12
6	Enclosure for monkeys/langur	1	10	10	10	"	10.00	2011-12
7	Aviary for birds (mixed species)	1	-	6	6	"	6.00	2011-12
8	Enclosure for Python/Cobra/Rat snake/Viper	3	-	2	6	"	6.00	2011-12
8	Transportation cages	1		2.50	2.50	"	10.00	2011-12
9	Treatment cages	2		2.50	5.00	"	5.00	2011-12
10	Solar lights	20		0.25	5.00	"	5.00	2011-12
11	Feeding equipments	LS			5.00	"	5.00	2012-13
12	Office equipments	LS			2.00	"	2.00	2013-14
13	Medical appliances	Ls			5.00	5.00	5.00	2013-14
14	Jeep	1		6.00	6.00	"	6.00	2012-13
15	Rescue van with all equipments	1		20.00	20.00	"	20.00	2011-12
	Total						386.00	

Equipment, Enclosures, Vehicles Abstract

	Year 2011-12	Year 2012-13	Year 2013-14	Total
Amount	368.00	11.00	7.00	386.00

ABSTRACT OF CONSTRUCTION AND DEVELOPMENT

Activity	2011-12	2012-13	2013-14	
A	79.90	00	00	79.90
B	140.75	39.75	18.00	198.50
C	00	10.00	38.00	48.00
D	368.00	11.00	7.00	386.00
Total	588.65	60.75	63.00	712.40

8.2 RECURRING EXPENDITURE

(Rs. In lacs)

508

Sr. no.	Type of Services	Total Estimated cost Rs. In lakh	Year 2014-15	Year 2015-16	Year 2016-17	Proposed source of grants
A SALARIES						
1	Staff salaries Detail as shown in the para 3 Personal planning	293.00	84.00	97.00	112.00	State Non-plan
B Maintenance						
1	Electricity	3.00	1.00	1.00	1.00	"
2	Telephone	1.50	0.50	0.50	0.50	"
3	Medicines	15.00	5.00	5.00	5.00	"
4	Transportation of animals charges	3.00	1.00	1.00	1.00	"
5	Water supply charges & maintenance	6.00	2.00	2.00	2.00	"
6	Maintenance of wild life kits	3.00	1.00	1.00	1.00	"
7	Maintenance of sanitary system	6.00	2.00	2.00	2.00	"
8	Feeds to carnivores	149.46	49.82	49.82	49.82	"
9	Feeds to herbivores	15.15	5.05	5.05	5.05	"
10	Feeds to birds	6.90	2.30	2.30	2.30	"
11	Feeds to Reptiles/python/snakes	0.72	0.24	0.24	0.24	"
12	Maintenance of Roads	3.00	1.00	1.00	1.00	"
13	Wages for sundry works inc stationery items etc.	15.00	5.00	5.00	5.00	"
14	Maintenance of Vehicles	1.50	0.50	0.50	0.50	"
	Total	522.23	160.41	173.41	188.41	

ABSTRACT OF SALARIES AND DAY TO DAY MAINTENANCE

Activity	2014-15	2015-16	2016-17	Total
Salaries	84.00	97.00	112.00	293.00
Maintenance	76.41	76.41	76.41	229.23
Total	160.41	173.41	188.41	522.23

ABSTRACT OF PROPOSED EXPENDITURES FROM 2011-12 to 2016-17

59

Rs. In laes

Year	Non-Recurring	Recurring	maintenance	Total
2011-12	588.65	-	-	588.65
2012-13	60.75	-	-	60.75
2013-14	63.00	-	-	63.00
2014-15	-	84.00	76.41	160.41
2015-16	-	97.00	76.41	173.41
2016-17	-	112.00	76.41	188.41
TOTAL	712.40	293.00	229.23	1234.63

8.3 COLLECTION PLAN OF ANIMALS (list of species)

1. Tiger - 10 maximum, including animals those could not be released in wild
2. Panthers- 20 maximum, including animals unfit for release in wild.
3. Sloth bear- 5 max, including animals unfit for release in wild.
4. Ungulates (deer) - 20 max, including animals unfit for release in wild.
5. Small mammals (Jackal, Wolf, Wild dog, Hyena) -10 max, including animals unfit for release in wild.
6. Monkeys - 10 max, including animals unfit for release in wild.
7. Birds – Mix species of birds including unfit for release in wild.
8. Reptile/python/Snakes-Max. 5 snakes including unfit to release in wild.

8.4 PROPOSED STAFFING PATTERN

Sr. no.	Designation	No. of posts proposed	Pay scale	Salary for one year
4.	Assistant conservator of forests (full time in charge of the Rescue Centre)	1	9300-34800+5000	6.50
5.	Veterinary Officer (Full Time)	1	9300-34800+5000	6.50
6.	Range forest officer (Curator)	1	9300-34800+4400	5.50
3	Forester (Head zoo keeper)	2	5200-20200+2400	6.00
4	Supernumerary laborers (Zoo keepers -24)	24	4440-7440+1300	48.00
5	Accountant	1	5200-20200+2800	3.50
6	Driver	2	5200-20200+1900	6.00
7	Peon	1	4440-7440+1300	2.00
	Total	33		84.00

8.5 MANAGEMENT PLAN

BO

The Rescue centre is plan to be completed within span of three years including buildings, enclosures, fencings, roads, water supply, sanitation, sewerages line by timely processing the proposals and getting the estimates sanctioned from the competent authorities. The phasing of proposal is made from 2011-12 to 2017-18 expecting the permission to set up rescue centre at Gorewada, Nagpur in the year 2011-12.

There are three abattoirs in the city of Nagpur, certified by Nagpur Municipal Corporation to get supply quality meat to carnivores. The availability of vegetables and fruits are in plenty supply in and around Nagpur. The procedure is laid down in Bombay financial Rules and other rules of Government of Maharashtra in case of procurement of material supply shall be adopted.

Environmental enrichment in the rescue centre will be enhanced with the plantation of suitable species in the proposed area.

Use of unwanted material like nylon ropes, plastics, tyres, etc. shall be avoided.

Suitable water holes will be provided in the enclosures.

Enclosures will be checked daily and be kept neat and clean.

Health of the rescued animals will be checked up daily.

Food of high quality will be provided at the scheduled times with certain quantities to the rescued animals.

General behavior of the animals will be watched carefully and a record to that effect shall be maintained.

Tranquillizing appliances will be checked daily.

After post mortem of the animal, the carcass will be disposed off with suitable method.

Snakes, dogs and monkeys shall be prevented to enter the rescue centre by providing Close vigil.

All necessary measures shall be taken so that no animal get escaped from enclosures.

All service systems will be checked up periodically.

9. ANNEXURE

61

1. Lay out Map
2. Resting cages and day cage for Tigers
3. Resting cages and day cage for Panthers
4. Resting cages and day cage for Sloth bears
5. Resting cages and day cage for Small mammals
6. Resting cages and day cage for Antelopes/Deers
7. Feeding and day cage for Monkey/Langurs
8. Enclosures for Birds
9. Enclosures for reptiles/python
10. Enclosure for cobra/Rat snakes/Viper
- 11.

Forest Laws

containing

- * The Indian Forest Act, 1927
- * The Forest (Conservation) Act, 1980
- * The Forest (Conservation) Rules, 2003
- * The Cattle-Trespass Act, 1871

&

- * The Wild Life (Protection) Act, 1972

as amended by

- * The Wild Life (Protection) Amendment Act, 2002
(16 of 2003)
- * The Wild Life (Transactions and Taxidermy)
Rules, 1973
- * The Wild Life (Stock Declaration) Central
Rules, 1973
- * The Wild Life (Protection) Licensing (Additional
Matters for Consideration) Rules, 1983
- * The Wild Life (Protection) Rules, 1995
- * The Wild Life (Specified Plants—Conditions
for Possession by Licensee) Rules, 1995
- * The National Zoo Policy, 1998

with

State Amendments &

Short Comments

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sustainable utilisation of forest produce. The members of the local communities would be involved in their management through management committees.

The Wild Life (Protection) Amendment Bill, 2002 proposes:—

- (i) to highlight the ecological and environmental objective in the Tong title of the Wild Life Act;
- (ii) to add new definitions in view of the amendments proposed in the Wild Life Act;
- (iii) to give statutory status to the National Board for Wild Life and restructuring of State Wild Life Advisory Boards giving wider representation to all concerned;
- (iv) to provide certain safeguards to stop killing of animals on the pretext of being dangerous to human life and property;
- (v) to rationalize and expedite the process of final notification of sanctuaries and national parks and safeguard the decline of bio-diversity during the intervening period between the first and final notification;
- (vi) to provide that any alteration in the boundaries of national parks and sanctuaries shall be made only on the basis of the recommendations of the National Board for Wild Life;
- (vii) to ban commercial sale of forest produce removed from national parks and sanctuaries for better management of Wild Life;
- (viii) to provide that no construction of commercial tourist lodges, hotels, zoos and safari parks shall be allowed inside the national parks and sanctuaries except with the prior approval of the National Board for Wild Life;
- (ix) to empower the officers to evict encroachment from the national parks and sanctuaries;
- (x) to provide for the creation and management of community reserves as well as conservation reserves;
- (xi) that zoos shall not acquire, or dispose of any wild or captive animals to any organisation other than a recognised zoo;
- (xii) to provide that captive animals and wild animals included in Schedule I and part II of Schedule II of the Wild Life Act and their parts and products can be acquired only by way of inheritance;
- (xiii) to enhance and rationalize penalties prescribed under the Act including the making of suitable provisions on the lines of the provisions of Chapter V-A of the Narcotic Drugs and Psychotropic Substances Act, 1985 in cases of offences pertaining to wild animals included in Schedule I and Part II of Schedule II of the Act;
- (xiv) to enhance the amount of rewards payable to persons rendering assistance in detection of offences and apprehension of offenders;
- (xv) to increase the amount that can be realized as compensation from Rs. 2,000 to Rs. 25,000.
- (xvi) to provide that the vehicles, weapons and tools, etc., used in committing compoundable offences are not to be returned to the offenders.

5. The Bill seeks to achieve the aforesaid objects.

CHAPTER I PRELIMINARY

1. Short title, extent and commencement.—(1) This Act may be called THE WILD LIFE (PROTECTION) ACT, 1972.

[(2) It extends to the whole of India except the State of Jammu and Kashmir.]

3. Substituted by Act 44 of 1991, S. 4, for sub-S. (2) (w.e.f. 2-10-1991).

(3) It shall come into force in a State or Union territory to which it extends [* * *] on such date* as the Central Government may, by notification, appoint, and different dates may be appointed for different provisions of this Act or for different States or Union territories.

2. Definitions.—In this Act, unless the context otherwise requires,—

⁵[(1) “animal” includes mammals, birds, reptiles, amphibians, fish, other chordates and invertebrates and also includes their young and eggs;]

(2) “animal article” means an article made from any captive animal or wild animal, other than vermin, and includes an article or object in which the whole or any part of such animal ⁶[has been used, and ivory imported into India and an article made therefrom];

⁷[* * *]

⁸[(4) “Board” means a State Board for Wild Life constituted under sub-section (1) of section 6;]

(5) “captive animal” means any animal, specified in Schedule I, Schedule II, Schedule III or Schedule IV, which is captured or kept or bred in captivity;

⁷[* * *]

(7) “Chief Wild Life Warden” means the person appointed as such under clause (a) of sub-section (1) of section 4;

⁹[(7-A) “circus” means an establishment, whether stationary or mobile, where animals are kept or used wholly or mainly for the purpose of performing tricks or manoeuvres;]

* The Act has so far been enforced in:—(1) Madhya Pradesh on 25-1-1973, Gaz. of India, 1973, Pt. II, S. 3(i), Ext., p. 73. (2) Bihar, Gujarat and Uttar Pradesh on 1-2-1973, *ibid*, pp. 93, 103, 106. (3) Harayana on 12-3-1973, *ibid*, p. 431. (4) Himachal Pradesh on 2-4-1973, *ibid*, p. 517. (5) West Bengal on 1-5-1973, *ibid*, p. 613. (6) Manipur and Arunachal Pradesh, on 15-5-1973, *ibid*, pp. 745, 765. (7) Kerala, Maharashtra and Delhi, on 1-6-1973, *ibid*, pp. 847, 867, 886. (8) Goa, Daman and Diu, on 16-7-1973, *ibid*, p. 1069. (9) Mysore, on 1-7-1973, *ibid*, p. 1003. (10) Andhra Pradesh, on 1-3-1973, *ibid*, p. 1127. (11) Rajasthan and Dadra and Nagar Haveli on 1-9-1973, *ibid*, pp. 1255, 1275. (12) Tripura, on 2-10-1973, *ibid*, p. 1459. (13) Lakshdweep on 1-11-1973, *ibid*, p. 1511. (14) Tamil Nadu, on 1-1-1974, Gaz. of India, 1974, Pt. II, S. 3(i), Ext., p. 1. (15) Orissa on 14-8-1974, *ibid*, p. 1645. (16) Union Territory of Chandigarh, on 2-12-1974, *ibid*, p. 2423. (17) Meghalaya, on 1-4-1977, Gaz. of India, 1-4-1977, Pt. II, S. 3(i), Ext., p. 537. (18) Nagaland, on 18-12-1981, Gaz. of India, 18-12-1981, Pt. II, S. 3(i), Ext., p. 1939. (19) Union Territory of Pondicherry, on 1-3-1975, Gaz. of India, 1-3-1975, Pt. II, S. 3(i), Ext., p. 419. (20) Punjab, on 1-4-1975, *ibid*, p. 715. (21) Assam, on 26-1-1977, Gaz. of India, 1977, Pt. II, S. 3(i), Ext., p. 95. (22) Sikkim, on 1-5-1976, Gaz. of India, 1976; Pt. II, S. 3(i), Ext., p. 1153. (23) Mizoram, on 1-10-1974, Gaz. of India, 1974, Pt. II, S. 3(i), Ext., p. 248.

4. The words “, or may become extended in future,” omitted by Act 44 of 1991, S. 4 (w.e.f. 2-10-1991).

5. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(a), for Cl. (1). Prior to its substitution, Cl. (1) read as under:—“(1) “animal” includes amphibians, birds, mammals and reptiles and their young, and also includes, in the cases of birds and reptiles, their eggs;”

6. Substituted by Act 44 of 1991, S. 5, for “has been used” (w.e.f. 2-10-1991).

7. Cls. (3) and (6) omitted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

8. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(b), for Cl. (4). Prior to its substitution, Cl. (4) read as under:—“(4) “Board” means the Wild Life Advisory Board constituted under sub-section (1) of section 6;”

9. Inserted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

BS 7

¹⁰[* * *]

¹¹[(9) "Collector" means the chief officer-in-charge of the revenue administration of a district or any other officer not below the rank of a Deputy Collector as may be appointed by the State Government under section 18-B in this behalf;]

(10) "commencement of this Act", in relation to—

(a) a State, means commencement of this Act in that State,

(b) any provisions of this Act, means the commencement of that provision in the concerned State;

¹²[(11) "dealer" in relation to any captive animal, animal article, trophy, uncured trophy, meat or specified plant, means a person, who carries on the business of buying or selling any such animal or article, and includes a person who undertakes business in any single transaction;]

(12) "Director" means the person appointed as Director of Wild Life Preservation under clause (a) of sub-section (1) of section 3;

¹³[(12-A) "Forest officer" means the Forest officer appointed under clause (2) of section 2 of the Indian Forest Act, 1927 (16 of 1927) or under any other Act for the time being in force in a State;

(12-B) "forest produce" shall have the same meaning as in sub-clause (b) of clause (4) of section 2 of the Indian Forest Act, 1927 (16 of 1927);]

¹⁴[* * *]

(14) "Government property" means any property referred to in section 39¹⁵[or section 17-H];

(15) "habitat" includes land, water or vegetation which is the natural home of any wild animal;

(16) "hunting", with its grammatical variations and cognate expressions, includes,—

¹⁶[(a) killing or poisoning of any wild animal or captive animal and every attempt to do so;

10. Cl. (8) omitted by the Wild Life (Protection) Amendment Act, 2002, S. 3(c). Prior to its omission, Cl. (8) read as under:—"(8) "closed area" means the area which is declared under sub-section (1) of section 37 to be closed to hunting;".

11. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(d), for Cl. (9). Prior to its substitution, Cl. (9) read as under:—"(9) "Collector" means the chief officer-in-charge of the revenue administration of a district;".

12. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(e), for Cl. (11). Prior to its substitution, Cl. (11) read as under:—"(11) "dealer" means any person who carries on the business of buying and selling any captive animal, animal article, trophy, uncured trophy *[meat or specified plant];"—* Substituted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

13. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(f), for Cl. (12-A). Prior to its substitution, Cl. (12-A) read as under:—"*[(12-A) "Forest Officer" means the Forest Officer appointed under clause (2) of section 2 of the Indian Forest Act, 1927 (16 of 1927);]"—* Inserted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

14. Cl. (13) omitted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

15. Inserted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

16. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(g), for sub-Cls. (a) and (b). Prior to their substitution, sub-Cls. (a) and (b) read as under:—"(a) capturing, killing, poisoning, snaring and trapping of any wild animal and every attempt to do so;

(b) driving any wild animal for any of the purposes specified in sub-clause (a);".

(b) capturing, coursing, snaring, trapping, driving or baiting any wild or captive animal and every attempt to do so;]

(c) injuring or destroying or taking any part of the body of any such animal or, in the case of wild birds or reptiles, damaging the eggs of such birds or reptiles, or disturbing the eggs or nests of such birds or reptiles;

(17) "land" includes canals, creeks and other water channels, reservoirs, rivers, streams and lakes, whether artificial or natural, ¹⁷[marshes and wetlands and also includes boulders and rocks];

(18) "licence" means a licence granted under this Act;

¹⁸[(18-A) "livestock" means farm animals and includes buffaloes, bulls, bullocks, camels, cows, donkeys, goats, sheep, horses, mules, yaks, pigs, ducks, geese, poultry and their young but does not include any animal specified in Schedules I to V;]

¹⁹[(19) "manufacturer" means a person who manufactures articles from any animal or plant specified in Schedules I to V and VI, as the case may be;

(20) "meat" includes blood, bones, sinew, eggs, shell or carapace, fat and flesh with or without skin, whether raw or cooked, of any wild animal or captive animal, other than a vermin;

(20-A) "National Board" means the National Board for Wild Life constituted under section 5-A;]

(21) "National Park" means an area declared, whether under section 35 or section 38, or deemed under sub-section (3) of section 66 to be declared, as a National Park;

(22) "notification" means a notification published in the Official Gazette;

(23) "permit" means a permit granted under this Act or any rule made thereunder;

(24) "person" includes a firm;

²⁰[(24-A) "protected area" means a National Park, a sanctuary, a conservation reserve or a community reserve notified under sections 18, 35, 36-A and 36-C of the Act;]

(25) "prescribed" means prescribed by rules made under this Act;

²¹[(25-A) "recognised zoo" means a zoo recognised under section 38-H;

17. Substituted for Act 44 of 1991, S. 5, for "and also includes boulders and rocks" (w.e.f. 2-10-1991).

18. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(h), for Cl. (18-A). Prior to its substitution, Cl. (18-A) read as under:—"[(18-A) "livestock" includes buffaloes, bulls, bullocks, camels, cows, donkeys, goats, horses, mules, pigs, sheeps, yaks and also includes their young;]"—* Inserted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

19. Substituted by the Wild Life (Protection) Amendment Act, 2002, S. 3(i), for Cls. (19) and (20). Prior to their substitution, Cls. (19) and (20) read as under:—"(19) "manufacturer" means a manufacturer of animal articles;

(20) "meat" includes blood, bones, sinew, eggs, fat and flesh, whether raw or cooked, of any wild animal, other than vermin;"

20. Inserted by the Wild Life (Protection) Amendment Act, 2002, S. 3(j).

21. Inserted by Act 44 of 1991, S. 5 (w.e.f. 2-10-1991).

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CHAPTER V
TRADE OR COMMERCE IN WILD ANIMALS,
ANIMAL ARTICLES AND TROPHIES

39. Wild animals, etc., to be Government property.—(1) Every—

(a) wild animal, other than vermin, which is hunted under section 11 or sub-section (1) of section 29 or sub-section (6) of section 35 or kept or ⁸⁶[bred in captivity or hunted] in contravention of any provision of this Act or any rule or order made thereunder or found dead, or killed by ⁸⁷[***] mistake; and

(b) animal article, trophy or uncured trophy or meat derived from any wild animal referred to in clause (a) in respect of which any offence against this Act, or any rule or order made thereunder has been omitted;

⁸⁸[(c) ivory imported into India and an article made from such ivory in respect of which any offence against this Act or any rule or order made thereunder has been committed;

(d) vehicle, vessel, weapon, trap or tool that has been used for committing an offence and has been seized under the provisions of this Act,] shall be the property of the State Government, and, where such animal is hunted in a sanctuary or National Park declared by the Central Government, such animal or any animal article, trophy, uncured trophy or meat ⁸⁹[derived from such animal or any vehicle, vessel, weapon, trap or tool used in such hunting] shall be the property of the Central Government.

(2) Any person who obtains, by any means, the possession of Government property, shall, within forty-eight hours from obtaining such possession, make a report as to the obtaining of such possession to the nearest police station or the authorised officer and shall, if so required, hand over such property to the officer-in-charge of such police station or such authorised officer, as the case may be.

(3) No person shall, without the previous permission in writing of the Chief Wild Life Warden or the authorised officer—

(a) acquire or keep in his possession, custody or control, or

(b) transfer to any person, whether by way of gift, sale or otherwise, or

(c) destroy or damage,

such Government property.

COMMENTS

The language of S. 39 makes it clear that it is only when it is found that a vehicle has been used for committing an offence and has been seized under the provisions of the Act, that the same shall be the property of the Government. Thus, so long as the competent Court of law does not find that the vehicle had in fact been used for the purpose of the commission of the offence, the vehicle does not become the property of the State Government: *Bai Kuntha Bihari Mohapatra v. State of Orissa* 2001 Cr.L.J. 4151 (Ori.).

40. Declarations.—(1) Every person having at the commencement of this Act the control, custody or possession of any captive animal specified in

86. Substituted by Act 44 of 1991, S. 27, for "bred in captivity" (w.e.f. 2-10-1991).

87. The words "without a licence or" omitted by Act 44 of 1991, S. 27 (w.e.f. 2-10-1991).

88. Inserted by Act 44 of 1991, S. 27 (w.e.f. 2-10-1991).

89. Substituted by Act 44 of 1991, S. 27, for "derived from such animal" (w.e.f. 2-10-1991).

ITEM NO. 310

COURT NO. 7

SECTION PIL

S U P R E M E C O U R T O F I N D I A
R E C O R D O F P R O C E E D I N G S

I. A. No(s) .22-23 & 24 in WRIT PETITION (CIVIL) NO(s) . 47 OF 1998

NAVIN M. RAHEJA

Petitioner(s)

VERSUS

U.O.I. & ORS

Respondent(s)

(With appln(s) for permission and permission to file additional documents)

Date: 05/08/2013 This matter was called on for hearing today.

CORAM :

HON'BLE MR. JUSTICE T.S. THAKUR
HON'BLE MR. JUSTICE SURINDER SINGH NIJJAR
HON'BLE MR. JUSTICE RANJAN GOGOI

For C.E.C.

Mr. A.D.N.Rao, Adv. (A.C.)

For Party(s)

Mr. Sanjay Kharde, Adv.
Ms. Asha Gopalan Nair, Adv.Mr. Mohd. Saheb Alam, Adv.
Mr. Rauf Rahim, Adv.

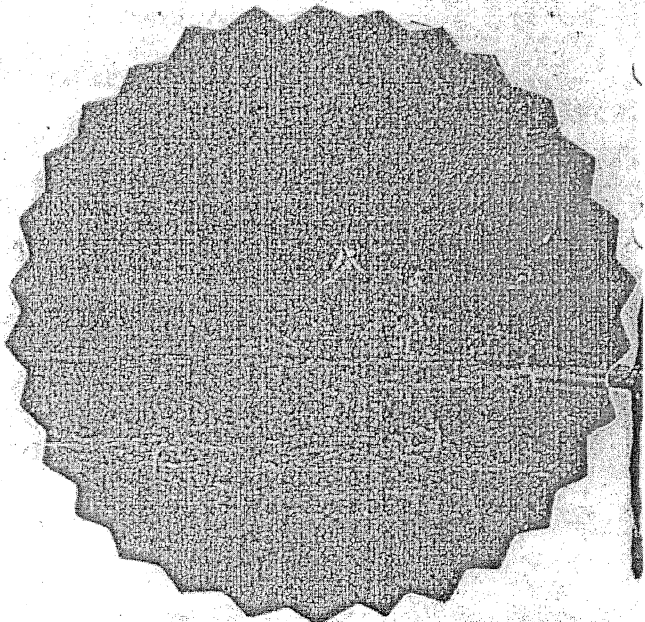
Certified to be true copy

Assistant Registrar (Judl.)

8/8/13 2013
Supreme Court of IndiaUPON hearing counsel the Court made the following
O R D E R

Heard.

These applications have been filed by the Government of Maharashtra seeking permission of this Court to establish a zoo and rescue centre at Gorewada, Tahsil and District Nagpur, Maharashtra. By our order dated 20th November, 2000 we had directed that no new zoo shall be established without the prior permission of the Central Zoo Authority of the Government of India and the orders from this Court. The Government of Maharashtra it appears has pursuant to the said direction approached the Central Zoo Authority for permission



AI—No. 25013
Urgent Fee ; Rs 5/-
Certification Fee Rs 10/-
No. of Folio 2 Rs 2
Total Cost Rs 17
Date of Application 7/8/10
Copy Ready On 9/5
Date of Delivery

SEALED IN MY PRESENCE

[Handwritten signature]

[Handwritten signature]
7/8/13

Branch Officer
Supreme Court of India

[Handwritten mark]



सुखें है हरियाली।
मिहों है खुशहाली।।



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
Central Zoo Authority



F. No. 20-2/2010-CZA(Vol. I)(M) / 3844

DATE: 19.11.2013

To

The Chief Wildlife Warden
Government of Maharashtra,
Nagpur (Maharashtra).

Sub:- Revised designs for the construction of various enclosures at Rescue Centre, Gorewada.

Sir,

Reference is invited to letter No. GM/WFP/Gorewada/8(ii)/1342 dated 12th November, 2013.

Signed copies of the revised designs for the construction of Tiger & Lion, Panther, Sloth bear, Small mammals, Deer and Antelope and Monkey enclosures at Rescue Centre, Gorewada are enclosed herewith for necessary action at your end.

Yours faithfully,

(B. S. Bonal)
Member Secretary

Encl: as above

✓ Copy to the Managing Director, Forest Development Corporation of Maharashtra Limited, Plot No. 12, 'Rawel Plaza' Kadbi Chowk, Kamptee Road, Nagpur - 440 004 for favour of information.

(B. S. Bonal)
Member Secretary



जहाँ है हरियाली।
हाँ है खुशहाली।।



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
Central Zoo Authority



F. No. 20-2/2010-CZA(Vol. I)(M) / 4 / 27

DATE: 09.01.2014

To

The Chief Wildlife Warden
Government of Maharashtra,
Nagpur (Maharashtra).

Sub: Revised designs for the construction of various enclosures at Rescue Centre, Gorewada.

Sir,

Reference is invited to letter No. GM/WFP/Gorewada/8(ii)/1342 dated 12th November, 2013.

Signed copies of the revised designs for the construction of Snake house and Bird cage at Rescue Centre, Gorewada are enclosed herewith for necessary action at your end.

Yours faithfully,
sd/-
(B. S. Bonal)
Member Secretary

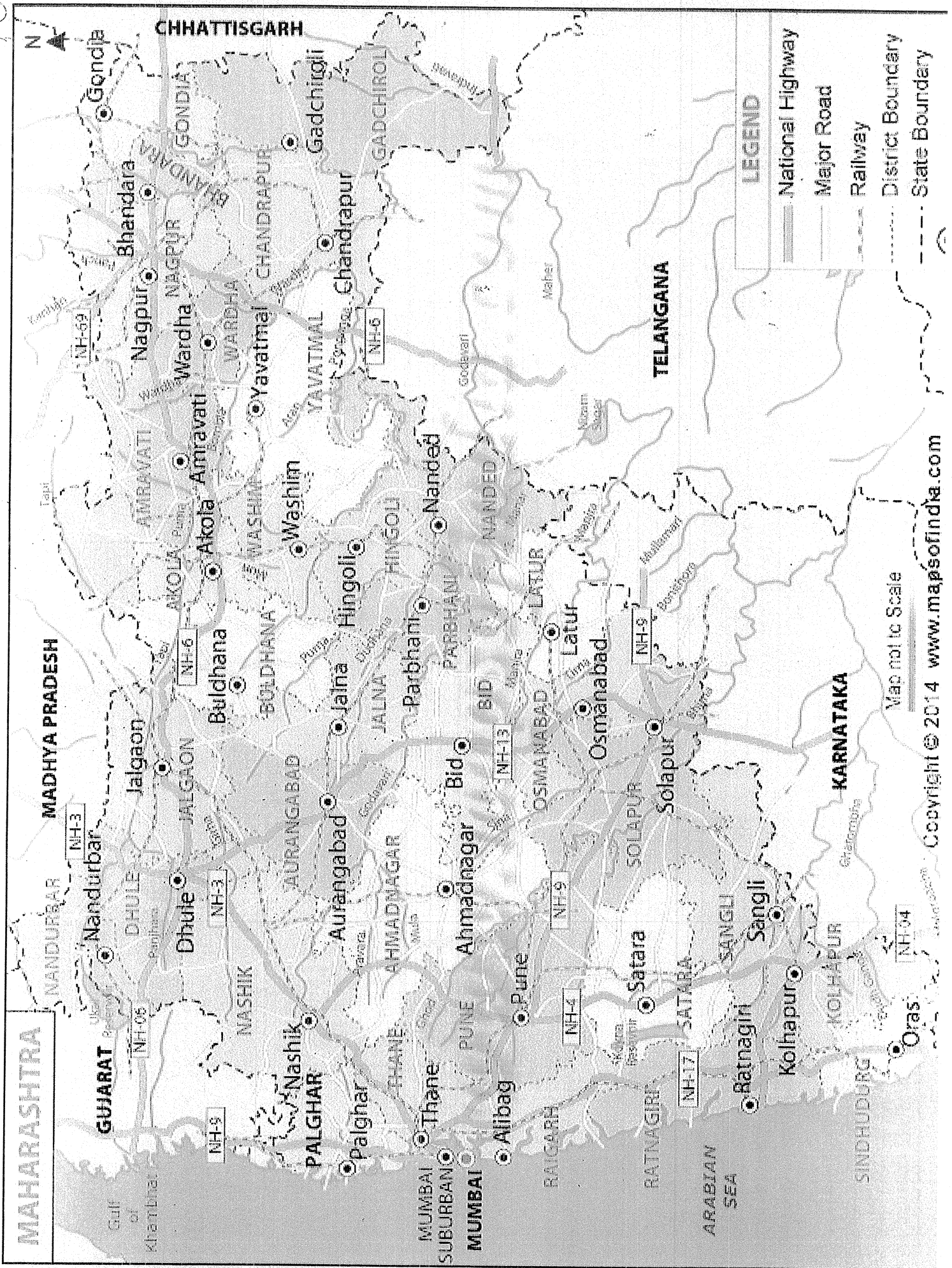
Encl: as above

Copy to the Managing Director, Forest Development Corporation of Maharashtra Limited, Plot No. 12, 'Rawel Plaza' Kadbi Chowk, Kamptee Road, Nagpur - 440 004 for favour of information.

Forwarded by

(Dr. Brij Kishor Gupta)
Evaluation and Monitoring Officer

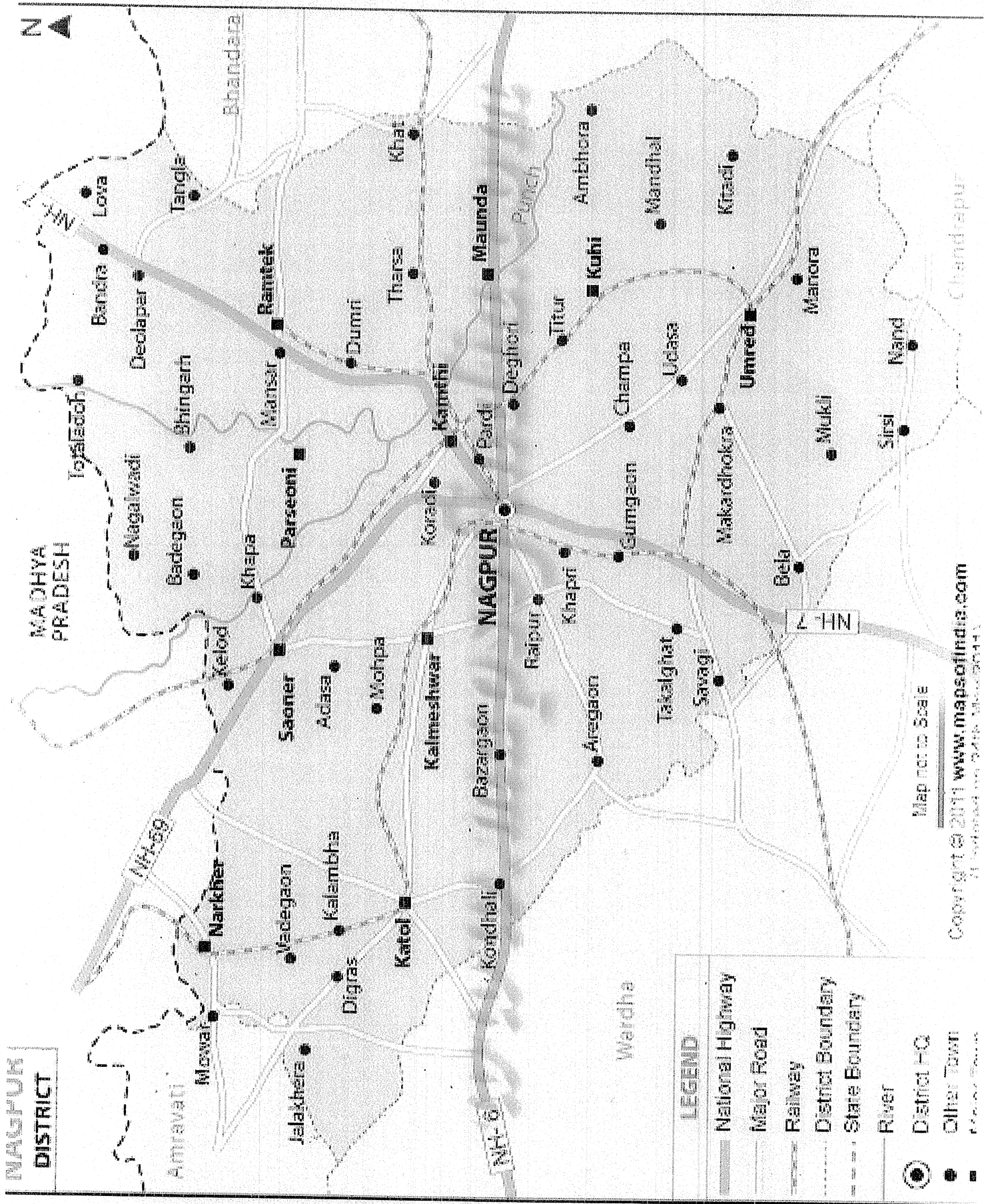
ANNEXURE- XX



Map not to Scale

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ANNEXURE- XXI



MAGPUR DISTRICT

LEGEND

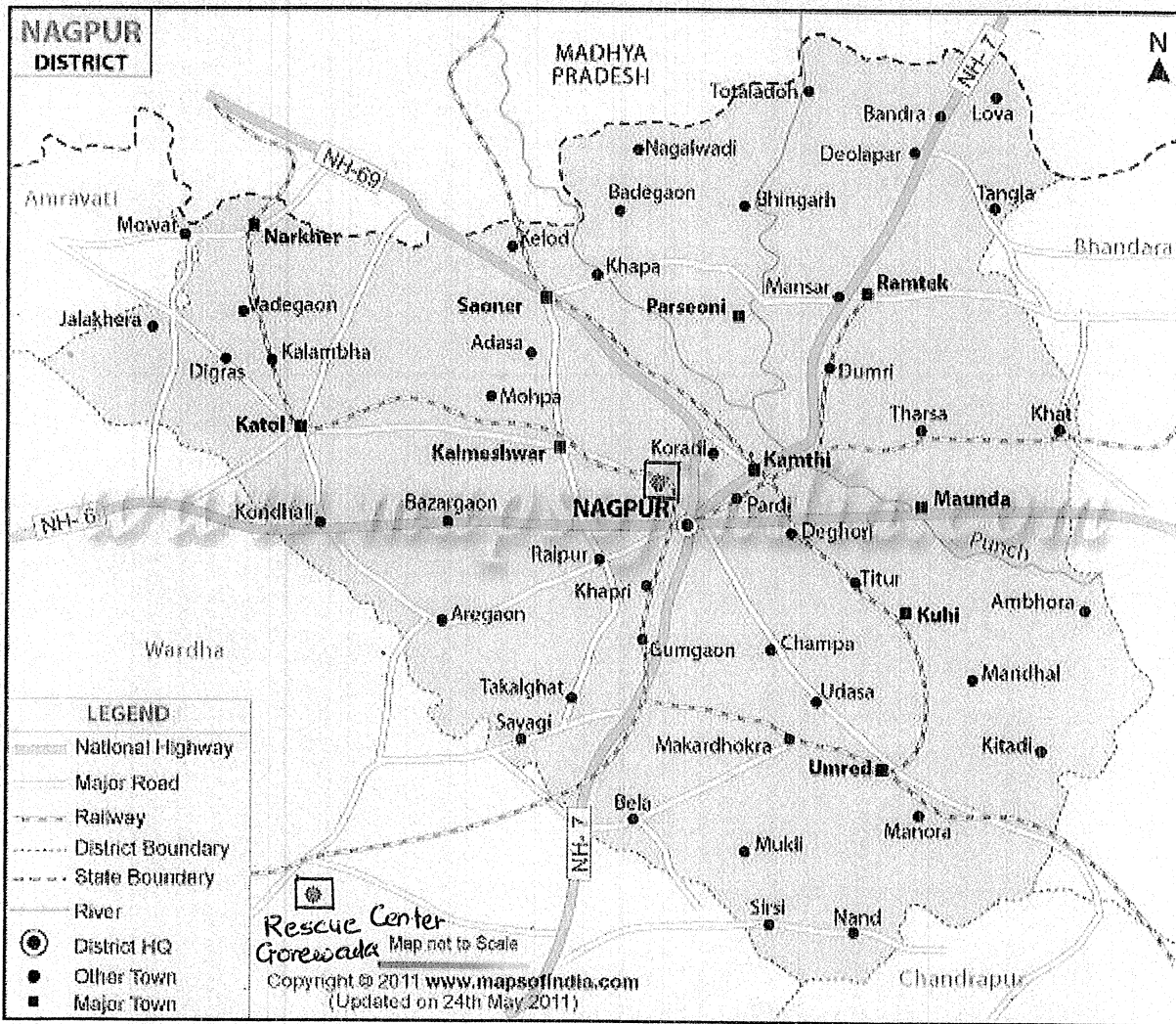
- National Highway
- Major Road
- Railway
- District Boundary
- State Boundary
- River
- District HQ
- Other Town

Map not to Scale

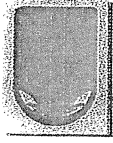
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ANNEXURE- XXII

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ANNEXURE- XXIII



FOREST DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED

(Govt. of Maharashtra Enterprise)

Office of the Managing Director

Regd. Office: Plot No.12, 'Rawel Plaza' Kadbi Chowk, Kamptee Road

Nagpur-440004

Email: mdfdcmltd@gmail.com

Phone Nos. (O) 0712-2533442, 2533475, 2555941 Fax : 0712-2551686

No. GM/WFP/Gorewada/38(II)/

268

Nagpur. dated

15 May, 2015.

To,

The Member Secretary,
Central Zoo Authority of India
Room No. 25-29, Middle Wing,
Hotel Janpath, Janpath
New Delhi-110 011.

Through :- Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden,
Maharashtra State, Nagpur.

Subject :- Observations on inspection of Rescue Centre, and field appraisal of Zoo and
Rescue Centre, Gorewada, Maharashtra – regarding

- Reference:-
- 1) Your Office Letter No. F.No.23-11/99-CZA(403)(Vol.1)(M)/2835, dated 17-05-2013.
 - 2) This Office Letter No. GM/WFP/Gorewada/1243, dated 08-12-2014.
 - 3) PCCF (WL) & CWLW, M.S., Nagpur's Letter No.: Desk-23(4)/C.N. 19-II/3306, dated 12-12-2014.
 - 4) This office Letter No. GM/WFP/Gorewada/38/1511, dated 16-01-2015.
 - 5) Your Office Letter No. F.No.23-11/99-CZA(403)(Vol.1)(AK)/6631, dated 14-01-2015.
 - 6) This office Letter No. GM/WFP/Gorewada/38/4421, dated 23-01-2015.
 - 7) Your Office Letter No. F.No.23-11/99-CZA(403)(Vol.1)(AK)/6680, dated 05-02-2015.
 - 8) This office Letter No. GM/WFP/Gorewada/30/2014-15/ 1731 dated 13-02-2015.
 - 9) This office Letter No. GM/WFP/Gorewada/38/ 1739 dated 13-02-2015.
 - 10) Your Office Letter No. F.No.23-11/99-CZA(403)(Vol.1)(AK)/6819, dated 16-03-2015.
 - 11) Your Office Letter No. F.No.23-11/99-CZA(403)(Vol.1)(AK)/6820, dated 16-03-2015.
 - 12) Your Office Letter No. F.No.20-2/2010-CZA(Vol.1)(AK)/6839, dated 16-03-2015.
 - 13) Your Office Letter No. F.No.23-11/99-CZA(403)(Vol.1)(AK)/6995, dated 08-04-2015
 - 14) Your Office Letter No. F.No.20-2/2010-CZA(Vol.1)(AK)/7078, dated 29-04-2015.

Dear Sir,

(1) Under reference No.,1), the approval of Chairperson, Central Zoo Authority/ Minister of State (IC), MoEF, Govt. of India, New Delhi, to establishment Zoo and Rescue Centre at Gorewada, Nagpur had been conveyed subject to conditions so laid down therein.

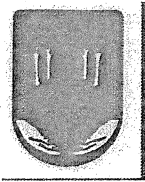
- (2) Under reference No.2), the Master Plan of Zoological Park and Rescue Centre at Gorewada was submitted to you through the Principal Chief Conservator of Forests (Wildlife), M.S., Nagpur.
- (3) Under reference No.3), the Principal Chief Conservator of Forests and Chief Wildlife Warden, M.S., Nagpur has submitted the same.
- (4) Under reference No.4) the compliance to the observations made under reference No.,3) was submitted.
- (5) Under reference No.5) CZA has made some observations. The same were complied vide letter under reference No.6).
- (6) Under reference No.7) amended copy of Master (layout) Plan for approval of Expert Group on Zoo Designing of CZA was sought for. The compliance was made vide letter under reference No.8).
- (7) Under reference No.9) long term Master Plan for Rescue Centre at Gorewada, has been submitted to your officer, which was received by your office on 18th February, 2015.
- (8) Under reference No.10) it was informed that Revised Master (layout) Plan and Master Plan of Zoo and Rescue Centre, Gorewada was placed before members of Expert Group on Zoo Designing of CZA in its 58th meeting held on 19th February, 2015, under the Chairmanship of the Additional Director General of Forests (Wildlife) cum Member Secretary, CZA, wherein some observations were made including, "Principly the committee agreed to recommend the Master Plan and Layout plan for its approval by Technical Committee of CZA".
- (9) Under reference 11) and 12), members of Expert Group on Zoo Designing of CZA were requested to inspect/field appraisal of the proposed Zoo and the Rescue Centre at Gorewada.
- (10) Members of Expert Group on Zoo Designing of CZA have inspected the Rescue Centre at Gorewada, on 17th & 18th April, 2015, in compliance to your letter under reference No. 11) & 12). The Observations made by the team of inspection were received under letter under reference No.14). The observations so made are complied as under :-

S.No	Observations	Compliance
A	Rescue Centre	
1	It was pointed out during the discussion that 38 posts have been created for managing the rescue centre. Since the rescue centre is almost ready to be operational soon it was felt that it is necessary that some rescue centre staff like animal keepers, forest guards and foresters to be directly involved in the upkeep of the animals should be given hands-on training before its operation. Veterinarians and Compounders should also be given hands-on training to manage wild animals. This can be done in some nearby zoos.	With regards to the training as animal keepers, 1 RFO, 1 Forester, 3 Forest Guards and 6 Van Majoors (Forest Labours) have been trained at Maharajbag Zoo, Nagpur, for hands-on training to get themselves acquainted in wild-animal upkeep. Maharashtra Animals and Fisheries Sciences University (MAFSU) Nagpur, in coordination with FDCI Ltd, already, has MOU, to provide Veterinarians and supporting staff.
2	The night houses of tiger and leopard enclosures	As per suggestions made by Expe

	are quite large structures with thick steel grills but the operation of the doors between cubical and into the kraals is operated through pulleys which are abnormally slow in relation to animal activity and difficult to handle when animals are housed there. This may lead to situation where the animal may move in or out during operation of gate whereas the door needs to be shut as soon as the animal has entered/moved out. It is suggested to modify the pulley with addition of heavy cylinders so that they can easily be pulled manually.	Member Group, the mechanical wing of PWD has come with modifications and also made demonstrations before Senior Officials. Accordingly, the modification has been approved to cater the need of animals and animal keepers both. The system is gear operated Winch, which is easy to operate manually and works as per desired efficiency and time.
3	A keeper's room with sink etc. may be created in keeper's passage of all enclosures with arrangement for changing and washing.	Required facilities are created at the right places.
4	Provision of water points may also be made close to each cubical for ease of cleaning by provision of a pipe along the length of the structure and provision of multiple valves. Every large cat enclosure should have attached squeeze cage. It is understood that they are already in the procurement process.	Required facilities are created at the right places.
5	Logs and live tree may be provided in each kraal.	Required facilities are created at the right places.
6	The interconnecting gate between the kraals is very complicated and heavy and is required to be operated after climbing a ladder. The entire system should be rectified in consultation with a mechanical engineer.	Required rectification has been made as mentioned in observation no-2 and its compliance.
7	The herbivore enclosures interconnecting doors should be operated by horizontal manual pulley.	Required rectification has been made as mentioned in observation no-2 and its compliance.
8	All steel elements should have rounded/chamfered corners & edges suitably smoothed to avoid injury to animals.	The corners and edges are suitably smoothed to avoid injury to animals in all enclosures and cubicles.
9	Every kraal has a feeding area which should be covered with chain link mesh and should have only one entry from the kraal. That should be an entry from the keeper's gallery, feeding troughs and drinking waters troughs. There should be an arrangement for capture problem/injured animals. Doors for some animals are rather small and they should be suitably increased.	The arrangements have been made to meet the requirements. Also door sizes have been suitably increased.
10	In the presently continuing constructions and the construction to be undertaken henceforth construction may be simpler and functional depending on the species to be housed as they are not to be used by the outsiders including visitors. The constructions agencies should be sensitized accordingly.	Future constructions will be simpler and functional, as advised.
11	Buildings like hospitals, staff quarters and	Suggestion is well taken. Future

	administrative block etc. which are nearing completion have been painted with various bright colours. It will be better if a colour scheme is decided for all the zoo structures, whose colour and texture may merge with the surrounding landscape. Structures under construction can also make use of other suitable materials having suitable colours and textures.	constructions will be designed, and coloured accordingly.
12	Some animal houses are at much higher level than the kraal. As a result, steep ramp have been provided between the animal houses and kraals. This should be rectified by putting soil. The surface should be planted with grass and gently sloping it from the animal houses to the lower kraal area for easier access.	As per suggestions, required rectifications have been made by putting soil and grass is being planted on them.
6 Night Safari		
a	Some additional area with gentle slope should be added on south-western side to provide adequate space for accommodating and spacing out the enclosures. This will also provide necessary sloping area for giving feeling of a forest road.	Additional area as suggested by the expert group on south western side has been provided in the revised master layout plan and the revised area of Night Safari is 65 ha. instead of 50 ha.
b	Instead of geographic display of Asian, American, African, Indian species, two classification of Asian and exotic species can be made with taxonomic display. The collection plan be revisited to exclude rare and endangered indigenous and exotic species which are difficult to procure and manage as there is no expertise available to ensure their proper upkeep. Instead commoner and hardy species of the region should be preferred.	As suggested by experts, species are displayed in Taxonomic form. Rare and endangered species are excluded. This has been shown in animal collection plan.
c	All large animals' enclosures should have a separate display area and holding area/animal shelter and should be suitably camouflaged from each other. The visitor should also not be able to see the passage between the display and holding area.	Separate display and holding areas are provided for large animals. Proper vegetation will hide passage between display and holding area.
d	While visiting the safari in vehicles it should be ensured that the visitor sees only one enclosure at a time and lighting should be suitably regulated and camouflaged to provide soft lighting resembling moonlight. This can be done through suitable vegetation and topographic variation.	The designing of roads will be done using the contours, to ensure visitor sees only one enclosure at a time. Intensity of lighting will resemble the intensity of moonlight.
e	Minimum alteration of the existing topography and vegetation should be ensured during construction. No natural water channel should be interfered with and no enclosure should be placed on such a channel and for this all natural features should be clearly indicated in the lay out plan.	Care will be taken that construction activity will least disturb, the topography and vegetation. Water channels won't be obstructed by construction.
f	The large size of the entrance of plaza should be reviewed and suitably reduced wherever possible and landscaped with appropriate vegetation to	Area of entrance plaza has been reviewed and is reduced considering the functional requirement of the

ANNEXURE- XXIV



**FOREST DEVELOPMENT CORPORATION OF
MAHARASHTRA LIMITED**
(Govt. of Maharashtra Undertaking)

Office of the Managing Director, F.D.C.M. Ltd. Plot No.12, 'Rawel
Plaza', Kadbi Chowk, Kamptee Road, Nagpur-04

Tel Nos.(office) 0712-2533442, 2533475, 2555941 Fax: 2551686
e-mail: mdfdcltd@gmail.com; Website: www.fdcn.nic.in

No: GM/WFP/ Gorewada/ 38(II)/ 1149

Nagpur. Dated. 14th October, 2015.

To,

The Member Secretary
Central Zoo Authority of India
B-1 Wing, 6th Floor, Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi.- 110003

Through: Principal Chief Conservator of Forests (Wild Life) and Chief
Wildlife Warden, Maharashtra State, Nagpur

Subject:- Seeking recognition to Rescue Center at Gorewada,
Nagpur, Maharashtra, as per guidelines for grant of approval by the Central
Zoo Authority for establishment of new zoos-Reg.

- Reference:** 1. PCCF (WL), MS: letter No. Desk-22(6)/48/2009-10 dated 21st
December, 2009.
2. Your letter No. F. No. 20-2/2010-CZA(Vol.I)(M)/1594, dated
28/29.08.2012.
3. This office letter No.: GM/WFP/Gorewada/38(ii)/1092 dated, 5th Oct.,
2015.

Sir,

As per the guidelines stipulated by Central Zoo Authority of India for grant of approval by the Central Zoo Authority for establishment of new zoos, the required compliance in respect of newly established Rescue Center at Gorewada, Nagpur-Maharashtra is made as below:-


Para No	Conditions	Compliance
1	Central Zoo Authority shall not entertain any proposal for establishment of a new zoo unless it is accompanied by a "Detailed Project Report" giving detailed appraisal of the proposed zoo site, 'mission-vision-theme' of the zoo and detailed strategy for housing, upkeep and healthcare of the	Central Zoo Authority has given approval to Master Plan (Detailed Project Report) of Gorewada Rescue Center vide its letter no.: F. No. 202/2010-CZA(Vol.I)(M)/1594, dated 28/29-08-2012.

	animals and their display for developing amongst visitors an empathy for wild animals and motivation for supporting the national conservation efforts.	
2	Central Zoo Authority shall not grant approval for a new zoo unless it is satisfied that the establishment of the zoo shall be instrumental in:-	
	(i).Providing highest standards of housing, upkeep and healthcare to significant number of animals presently housed in sub-standard and inappropriately managed zoos.	Gorewada Rescue Center is a newly established one. It is equipped with highest standards of housing upkeep and healthcare for animals to be kept in.
	(ii).Carrying out of path breaking research for developing innovative strategy for enhancing the reproductive potential, neonatal care and genetic and behavioral management of endangered species of wildlife.	Gorewada Zoo and Rescue Center has a Memorandum of Understanding (MOU) with Maharashtra Animal and Fisheries Science University (MAFSU), Nagpur for research and education in the field of Wild animals. It will be unique arrangement in the Country in the field of Wild-animals conservation and path breaking research for developing innovative strategy for enhancing the reproductive potential, neonatal care and genetic and behavioral management of endangered species of wildlife.
	(iii).Setting up of state of art facility on use of innovative methods of display of zoo animals that is congenial to the welfare of the animals and motivates the visitors for conservation.	Being a Rescue Center, it is not applicable.
3.	Central Zoo Authority before granting approval for establishment of a new zoo shall satisfy itself:-	
	(i).that zoo site has adequate land of appropriate quality (free of all encumbrances, water logging, sewage and storm water drains) is available for construction of the zoo and for raising tree belts of adequate width to act as buffer against noise pollution and air pollution.	(i).Gorewada Rescue Center is the part of Gorewada Zoo and Rescue Center Project which is having 1914 ha Forest Land and 25.57 ha Non Forest Government Land assigned to Forest Development Corporation of Maharashtra Limited, Nagpur (A Maharashtra Government owned Enterprise). Gorewada Rescue Center is established on sprawling over 25 ha forest land which is a beautiful forest of ideal quality free of all encumbrances, water logging, sewage and storm water drains. It is merged in tree cover. Tree belts of adequate width is already existing which act as buffer against noise

		pollution and air pollution
	(ii).Project proponents have requisite availability of water, energy and finances on-sustained basis for construction and operation of the zoo, including payment of salary/emoluments of technical personnel, to be required as per the provision of Recognition of Zoo Rules.	(ii).Gorewada Rescue Center has been already constructed. It has requisite availability of water, energy and finances on sustained basis. Government of Maharashtra has made available grants for constructions. It has also provided technical and supporting personnel and their salary/emoluments.
	(iii). There is likelihood of part of operation cost of the zoo being met through revenue earned by the zoo.	(iii).Not applicable.
	(iv).Requisite numbers of qualified and experienced persons are available for preparing the detailed plan of the zoo and its effective execution.	(iv). Detailed plan of the Gorewada Rescue Center and its effective execution has been prepared and submitted to CZA vide this office letter no. GM/WFP/Gorewada/38/1739 dated 13 th Feb., 2015 and is under active consideration of CZA for its approval.
	(v).No animals from wild are proposed to be acquired for display purposes.	(v).Being a Rescue Center, no animals from wild are proposed to be acquired for display purposes at Rescue Center Gorewada.
4.	Central Zoo Authority while examining any proposal of the State Government/ Union territories for establishment of a new zoo and recommending such cases to the Hon'ble Supreme Court shall satisfy itself on following additional points:-	
	(i).State Government/ Union Territory has made adequate provisions in its budget to meet the operational costs of all the existing zoos being operated by it, including the salary of zoo personnel as per standards and norms prescribed under "Recognition of Zoo Rules" and all the posts sanctioned in the budget have been duly filled.	(i).Yes. Maharashtra Government has made adequate provisions in its budget to meet the operational costs of all the existing zoos being operated by it, including the salary of zoo personnel as per standards and norms prescribed under "Recognition of Zoo Rules" and all the posts sanctioned in the budget have been duly filled.
	(ii).All the conditions stipulated by the Central Zoo Authority at the time of grant of recognition to the zoos being operated by the State Government/ Union Territories have been fully complied with.	(ii).Gorewada Rescue Center is a new Rescue Center and is seeking recognition for the first time, all the conditions stipulated by the Central Zoo Authority at the time of recognition will be fully complied.
	(iii).All the zoos operated by the State Government/Union Territories, that have been refused recognition have stopped their operations and the animals housed therein have been rehabilitated appropriately.	(iii).Gorewada Rescue Center is a newly established Rescue Center. This condition is not applicable for it.
	(iv). No resources and professional experts from existing zoos are being re-appropriated for establishment of the new zoo.	(iv).Being a new Rescue Center, it is not applicable for Gorewada Rescue Center.

You are requested to grant approval for recognition to newly established Rescue Center at Gorewada, Nagpur-Maharashtra under section 38H (1A) of the Wild Life (Protection) Act, 1972.

For Forest Development Corporation Limited, Nagpur


Managing Director

- (1) Copy forwarded with compliments to Secretary (Forests), Revenue and Forest Department, Maharashtra for information and necessary action.
- (2) Copy forwarded with compliments to Principal Chief Conservator of Forests (Head of Forest Forces), Maharashtra State, Nagpur for information.
- (3) Copy forwarded to Principal Chief Conservator of Forests (Wildlife) and Chief Wildlife Warden Maharashtra State, Nagpur for information and requested to forwarded the application to CZA.
- (4) Copy forwarded to Chief General Manager (Planning) FDCM Ltd, Nagpur for information.
- (5) Copy forwarded to General Manager WFP and Afforestation Region, Nagpur FDCM Ltd, Nagpur for information and necessary action.
- (6) Copy forwarded to Divisional Manager Gorewada Project, FDCM Ltd, Nagpur for information and necessary action.

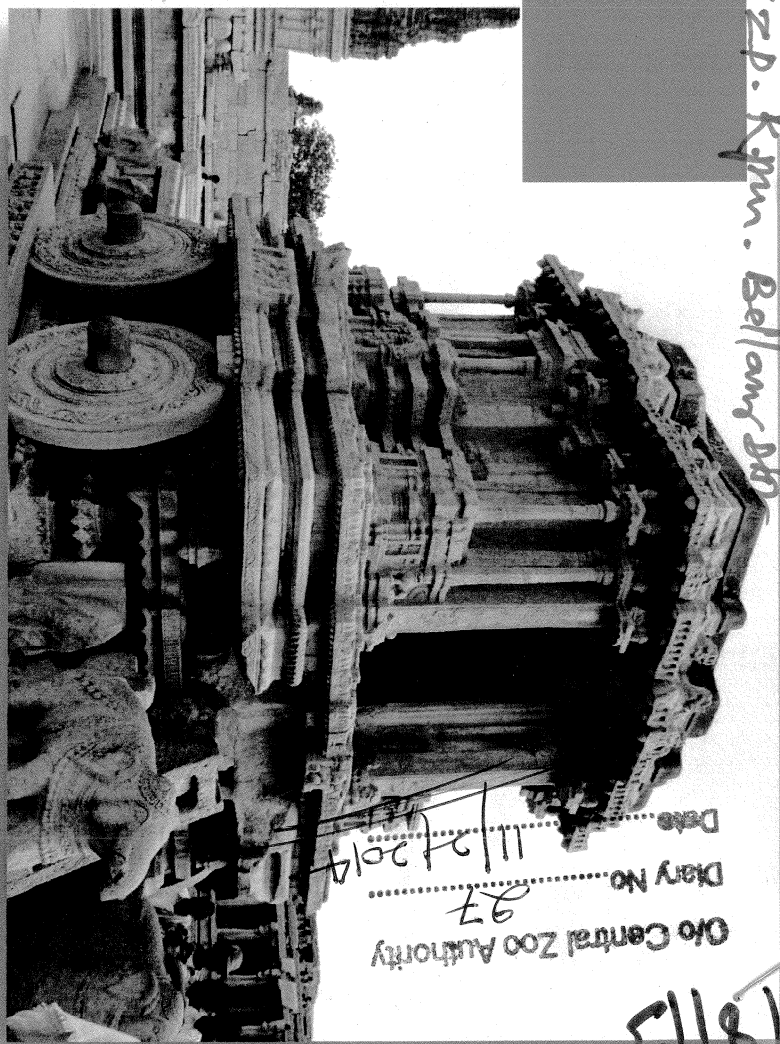
Revised Master Plan Submitted
to CZA on 6/8/2013 in soft copy.

[Signature]
S.D. ABVZP. Kpn. Bellary Dist

ATAL BIHARI VAJPAYEE ZOOLOGICAL PARK

BILIKAL RESERVE FOREST, HOSPET TALUK,
BELLARY DISTRICT, KARNATAKA

MASTER PLAN (Relocation of Bellary Zoo) 2012-2013 to 2021-2022



O/o Central Zoo Authority
Diary No 97
Date 11/2/2014

104
6/8/13

SUBMITTED BY
EXECUTIVE DIRECTOR / DEPUTY
CONSERVATOR OF FORESTS,
ATAL BIHARI VAJPAYEE ZOOLOGICAL PARK,
KAMALAPUR.

PREFACE

Bellary zoo was established in the year 1981 in an area of 2.4 ha .The zoo is located in Bellary city in the compound of the office of the Deputy conservator of forests .Since the area is small ,the area of the enclosures of the animals are not as per the prescribed minimum standard areas by the Central Zoo Authority .Hence it was proposed to shift the zoo to Bilikal Reserve Forests ,near Kamalapur ,Hospet Taluk ,Bellary District in an area of 141.6 ha .The concept plan was approved by the CZA dated 18-12-2012 the same is placed in Annexure-5.

As advised on 18-12-2012 the final Layout map has been sent for approval duly signed by Executive Director – Kamalapur and Member Secretary, Zoo Authority of Karnataka, Mysore. And got the map approved by Member Secretary, Central Zoo Authority (CZA) on 30-12-2012. Approved map enclosed.

This master plan is prepared for the years 2012 – 13 to 2021 – 22. ,but subsequently modifications can be done as per the requirements .The estimated financial outlay is 3431.53 lakhs Rs .The maintenance cost will be borne by the Zoo authority of Karnataka /State government of Karnataka .

During the execution, information will be collected through studies, by visiting zoos of the country and abroad and the latest technologies will be adopted.


(S.A.HUBERT)

Executive Director & Deputy / Conservator of Forests,
Atal Bihari Vajpayee Zoological Park,
Kamalapur, Hospet Taluk, Bellary District.

ACKNOWLEDGEMENTS

We would like to express our gratitude to Sri. S.C.SHARMA, and BRIJ KISHORE GUPTA OF CZA, for encouraging, and giving valuable support and inputs and guiding us in preparing this Master Plan.

We express our gratitude to Sri. B.K.SINGH, IFS, PCCF and Sri. DEEPAK SHARMA, IFS, PCCF, wild life, Karnataka, for giving guidance in preparing the project .

We are grateful to Sri. R.S.SURESH, IFS, Member Secretary, Zoo authority of Karnataka , for giving valuable suggestion while preparing the project. We are grateful to Sri. P.C.RAY, IFS, CCF. Bellary circle Bellary for his valuable suggestions.

We convey our gratitude to Sri. B.P.Ravi, E.D., of Mysore Zoo, for guiding in preparation of this Master plan for the zoo.

We convey our gratitude to Sri. S. Manikandhan, IFS, DCF. Bellary Division, Bellary.

We thank Sri. R. Harikrishnan, Architect who prepared layout plan and estimates for the zoo.

We thank all the officers and the staff who have directly or indirectly contributed in the preparation of the master plan.


(S.A.HUBERT)

Executive Director & Deputy / Conservator of Forests,
Atal Bihari Vajpayee Zoological Park,
Kamalapur, Hospet Taluk, Bellary District.

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PART I

CHAPTER – 1

1. 1. INTRODUCTION

Bellary zoo was established on 1-10-1981 in an area of 2.4 Ha. This is located in Bellary city behind the office of the deputy conservator of forests, Bellary. This zoo was established to provide nature education, to create awareness, to create a place for relaxation and for entertainment of the local public.

The land in which the zoo is established is a plain land, the soil being predominantly black cotton soil. During rainy season the whole area becomes slushy which causes inconvenience for the movement of the visitors to the zoo and also causes health hazards to the animals kept in the zoo. The flora found in the zoo area is *Acacia chundra*, *Albizia amara*, *Azadirachata indica*, *Dodonia viscosa*, *Lantana camara* etc. Since the zoo is located inside the city area no fauna is naturally found in this area.

The climate is very hot in summer, temperature reaches up to 45* C during the summer. During the winter the average maximum temperature is about 30*C and the average minimum temperature is about 17*C.

The annual rainfall in this area is about 800 mm

The land belongs to the municipal corporation, Bellary and is handed over to the Forest department to establish the zoo. Pollution in this area is high due to the movement of trucks carrying iron ore and due to the movement of trains. (Both passenger and goods, especially iron ore)

Since the area available is small, there is no scope to upgrade the enclosures to the specifications laid down by the central zoo authority. However Central Zoo Authority has recognised the present Bellary zoo uptill 2013.

The enclosures and the rooms where animals are kept in captivity do not confirm to the modern scientific standards. The layout plan is given in **Annexure – 1**.

The Central Zoo Authority has also been resenting the present condition of the zoo. Sri T.R.Baalu, the then Honorable Minister for environment and forests addressed a letter dated 25-9-2001 to Sri S.M.Krishna, the then Honorable Chief Minister of Karnataka made a special mention of the Bellary zoo requesting to close down the existing zoo in Bellary and to transfer the animals to other places. He however indicated that the central government would also like to have a modern zoo in Bellary. The copy of the letter of the Honorable minister is placed in **Annexure – 2**. Action has been initiated and an alternative site has finally been located near Kamalapur in Bilikal west reserve forest in Hospet Taluk of Bellary District. The notification of the Bilikal west reserve forest is placed as **Annexure – 3**. The site evaluation report of Sri Patnaik, JFS (Retd.) is placed at **Annexure – 4**.

The present zoo will be shifted to Bilikal reserve forest and is renamed as Atal Bihari Vajpayee Zoological Park.

CHAPTER – 2

2. 1. The following animals have been kept in the zoo
Presently following animals are housed in the Bellary zoo.

Sl no	Animal name	Scientific name	Male	female	Sex	Total no
1	BIRDS Peacock	Pava Cristatus	4	5	-	9
2	Love birds	Agapornis	21	10	15	46
3	Ducks	Anser Anser	5	2	3	10

4	Pigeons	Columbidae	33	31	9	73
5	Parakeets	Psittacula Kramery	2	2	4	8
	TOTAL BIRDS		65	50	31	146
II	MAMMALS					
1	Tiger	Panthera tigris	1	-	-	1
2	Panther	Panthera pardus	1	-	-	1
3	Bear	Melursus	-	1	-	1
4	Spotted deer	Axis axis	42	48	8	98
5	Black bucks	Antelope cervicapra	50	32	14	96
6	Jackal	Canis aureus	1	1	-	2
7	Rabbits	Leporidae Cunicuals	7	1	2	10
8	Red monkey	Presbytis phayrei	2	-	-	2
	TOTAL MAMMALS		104	83	24	211
III	REPTILES					
1	Star tortoise	Geochelone	3	2	-	5
2	Water tortoise	Geochelone	6	-	-	6
3	Crocodile	Crocodylus Palustris	4	2	-	6
	TOTAL REPTILES		13	4	0	17
	TOTAL ANIMALS		182	137	55	374

2. 1. 1. **VETERINARY SECTION:** Veterinary doctor of Bellary of the Karnataka state government frequently visits the zoo and looks after the general health conditions of the animals .As such there is no veterinary doctor exclusively for the zoo.

2. 1. 2. **STORE AND FEED SUPPLY:** Animals / birds are given feedings of good quality and the prescribed quantity at appropriate times as directed by the zoo authority of Karnataka.
2. 1. 3. **SANITATION SECTION:** the zoo premises are kept clean and then drainages are maintained properly. Disinfectants are regularly sprayed in the enclosures and drainages so that the enclosures are kept in hygienic condition. Full time sweepers are engaged to look after the sanitation in animal cages in the zoo premises.
2. 1. 4. **MAINTENANCE SECTION:** 9 employees' carryout the works of maintaining the zoo. The zoo is kept clean and in hygienic condition. They also look after the feeding to the animals at the appropriate timings. They also look after the solid waste disposal, liquid sewerage, gardens, and landscape sections. Water supply to the zoo is also adequate.
2. 1. 5. **SECURITY SECTION:** The zoo has a compound wall and is well secured. The employees of the zoo look after the security of the zoo.
2. 1. 6. **WATER SUPPLY SECTION:** A bore well in the zoo caters to the needs of drinking and cleaning water for the animals of the zoo. The water is sufficient for the fodder maintenance of the fodder plot as well.
2. 1. 7. **DISPOSAL OF SOLID WASTE AND LIQUID WASTE SEWERAGE:** The employees look after the solid waste disposal of the zoo. The waste is carried away from the zoo premises by the employee's corporation of Bellary. There is a well maintained drainage system in the zoo which carries away the liquid waste.
2. 1. 8. **VISITORS AMENITIES:** There are benches, rest places and toilets in the zoo for the convenience of the visitors. There is a children play area with children play equipments.

2.1.9. **LAWNS AND GARDENS – LANDSCAPE SECTION:** A small garden which is maintained by the zoo employees exists in the zoo.

2.2. **COLLECTION PLAN:**

Since the zoo is about to be relocated no future plan is laid for the collection of animals.

2.3. **GENERAL ZOO ADMINISTRATION SECTION:**

The zoo is headed by the Executive Director (The deputy conservator of forests, Bellary Division, Bellary). The other staffs who look after the zoo are Range forest officer, Forester, Guards, Watchers, temporary workers.

The existing staffing pattern is given below.

Staff Position as on: 25.09.2009.					
Sl. No.	Designation	No. of post	Working	Vacant	Remarks
ZAK Staff					
1	Range officer	1	-	1	Vacant from 01.12.2008 (additional charge of Zoo RFO, Bellary(T))
2	Forester	1	1	-	
3	Forest watcher	1	1	-	
Daily wages workers - 3 labs		2 listed labs 1 contract basis			
Deputation staff					
1	Animal keepers -4 No's (Group -D)				Deputed from Bellary Range
2	Sweepers - 1 No (Group -D)				Deputed from Bellary Range
3	Night watchman -1 No (Group-D)				Deputed from Bellary Range

2. 4. RESEARCH:

No research activities are undertaken as present.

2. 5. CONSERVATION BREEDING:

Breeding in case of Black bucks and deer's is incidental and there is no conservation breeding program carried out by the zoo.

2. 6. EDUCATION AND AWARENESS:

Education and awareness is imparted to the visitors by displaying signage at the various enclosures.

2. 7. ANY OTHER ACTIVITY PECULIAR / UNIQUE TO THE ZOO:

Every year during the wild life week, competitions are being held among the students of the local schools to create awareness and imparting knowledge. Drawing competitions, Essay completions about the wild life and debating competitions are being conducted.

PART II

CHAPTER – 3

Future objectives: Including mission statement and theme.

Zoos are globally recognized as a potent for ensuring the conservation efforts in any country / locality. We have serious environmental problems in Bellary district, therefore it is crucial to enlighten the locals about important of environmental conservation.

3. 1. VISION STATEMENT:

Green Western Ghats clean rivers with perpetual supply of water and fertile agricultural fields needs to be protected and conserved while maintaining the biodiversity and wildlife. Thus this zoo will provide educational as well as recreational facility in the region.

3. 2. MISSION STATEMENT:

To create amongst people empathy for wild animals and motivate them to protect and conserve wild animals and agriculture in this region, and to take up conservation of endangered fauna with special emphasis on Deccan peninsular fauna, research on wild life behaviour and to impart wild life education among the public.

3. 3. OBJECTIVES:

Besides the site is very close to historical site Hampi, where lakhs of tourists visit every year, the zoo will also play a great role in sensitizing towards the ecological importance of wild animals.

3. 3. 1. STRATEGY FOR ACHIEVING THE OBJECTIVES:

The above objectives are proposed to be achieved by adopting the following location specific strategies for each of them. The following are the objectives for the establishment of the new zoo at Bilikal reserve forest, near Kamalapur of Bellary district.

1. Develop amongst the visitors' empathy for wild animals and motivate them to support the cause of conservation of wild life and to develop amongst the visitors an understanding about the linkages with the life supporting process of the nature.
2. Compliment and strengthen the national efforts in conservation of wild life through planned coordinated conservation breeding of endangered, Vulnerable and threatened wild animal species of the region.
3. Promotion of research on conservation of wild life in captivity.
4. Promotion of conservation, education and awareness.

3. 3. 2. STRATEGY TO REALIZE THE MISSION:

1. To develop and maintain self sustaining population of physically, behaviourally, genetically healthy animals of all the species housed at the zoo.
2. Display various species in naturalistic settings in enclosures congenial to the animals housed therein.
3. To facilitate the visitors to appreciate and understand the ecological linkages between various species of wild animals, the vegetation supports them and life supporting process of nature.
4. To carry out research that helps in improved housing and upkeep of zoo animals, their breeding and communicating clean and loud conservation message to the visitors.
5. To make the public visit to the zoo a safe, secure, comfortable and rewarding.
6. Planned breeding of endangered species for display purposes in zoo release in the wild if so required.
7. To provide rescue facilities for orphaned / injured and in capacitated animals.

CHAPTER -- 4

FUTURE ACTION PLAN

4. 1. PROPOSED ANIMAL COLLECTION PLAN:

The proposed animal collection plan along with the existing animals and proposed numbers and acquisition / disposal of animals is given below. This plan is prepared keeping in new norms of CZA for the animals to be acquired from other zoos and the same has been approved by CZA.

COLLECTION PLAN:

SPECIES	EXISTING NUMBER	PROPOSED NUMBER	AQUISITION/ DISPOSAL	REMARK
1. TIGER	1-0-0-1	4-6-0-10	2-3-0-5	REST THROUGH BREEDING
2.SLOTH BEAR	0-1-0-1	4-6-0-10	2-3-0-5	-DO-
3.JUNGLE CAT	0-0-0-0	4-6-0=10	2-3-0-5	-DO-
4.LEOPARD CAT	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
5.RHESUS MACAQUE	2-0-0-2	4-6-0-10	2-3-0-5	-DO-
6.STUMP TAILEDMACAQUE	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
7.BONNET MACAQUE	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
8. NILGIRI LANGUR	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
9. COMMON LANGUR	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
10. SAMBHAR DEER	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
11.SPOTTED DEER	42-48-8-98	6-14-0-20	36-34-8-78	
12. BARKING DEER	0-0-0-0	6-14-0-20	2-3-0-5	-DO-

13. BLACK BUCK	50-32-14-96	6-14-0-20	44-18-14-76	
16. WOLF	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
17. HYENA	0-1-0-1	4-6-0-10	2-2-0-2	-DO-
18. JACKAL	0-3-1-4	4-6-0-10	2-3-0-5	-DO-
19. FOX	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
20. LEOPARD	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
21. NILGAI	0-0-0-0	6-14-0-20	2-3-0-5	-DO-
	AVIAN	FAUNA		
1. GREY JUNGLE FOWL	0-0-0-0	4-6-0-10	2-3-0-5	REST THROUGH BREEDING
2. RED JUNGLE SPUR FOWL	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
3. RING NECK PHEASANT	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
4. SILVER PHEASANT	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
5. GOLDEN PHEASANT	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
6. SARUS CRANE	0-0-0-0	5-5-0-10	2-2-0-4	-DO-
7. PAINTED STORK	0-0-0-0	5-5-0-10	2-2-0-4	-DO-
8. EURASIAN SPOONBILL	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
9. COMB DUCK	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
10. LESSER WHISTLING TEAL	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
11. BAR HEADED GEESE	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
13. RUDDY SHELDUCK	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
14. COMMON TEAL	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
15. COTTON PYMY TEAL	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
16. GARGANEY	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
17. SHOVELER	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
18. NIGHT HERON	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
19. POND HERON	0-0-0-0	4-6-0-10	2-3-0-5	-DO-
20. CATTLE EGRET	0-0-0-0	4-6-0-10	2-3-0-5	-DO-

21 COCKATOO SULPHUR CRESTED	0-0-0-0	2-2-0-4	2-2-0-4	
22. COCKATOO MOLLUCAN	0-0-0-0	2-2-0-4	2-2-0-4	
23. RED AND BLUE MACAW	0-0-0-0	2-2-0-4	2-2-0-4	
24. RED AND YELLOW MACAW	0-0-0-0	2-2-0-4	2-2-0-4	
25 AFRICAN GREY PARROT	0-0-0-0	2-2-0-4	2-2-0-4	
	REPTILES			
1. FRESH WATER CROCODILE	4-2-0-6	2-2-0-4	2-2-0-4	
2. MONITOR LIZARD	0-0-0-0	4-6-0-10	2-3-0-5	REST THROUGH BREEDING
2. GAVIAL	0-0-0-0	2-2-0-4	2-2-0-4	

4. 2.

DESCRIPTION OF THE LAYOUT PLAN OF THE ZOOLOGICAL PARK:

The zoological park is proposed to be developed around two natural streams with minimum of visual barriers. The animals shall be given sufficient space for retreat and privacy. The proposed detailed layout plan of the zoo is enclosed in **Annexure – 6**. The same has been approved by Central Zoo Authority (CZA) dated 18.12.2012 and the letter of approval is placed at **Annexure – 5**.

The entrance of the zoo is located 600m away from main road connected through wide approach road. The main road spans through Papinayakanahalli and Kamalapur off Hospet-Bellary state highway. The administrative buildings are located towards northern side of the approach road close to the entrance gate, and visitors amenities zone which comprises ticket counter / interpretation centre, open waiting lounge, restaurant, garden are placed on southern side of approach road along with visitors vehicular parking and safari pickup point. From the approach road service road is branching out with dedicated access controlled entry into the zoo.

The proposed arrangement in the zoological park divided into two types. One is safari park area and the other is zoo exhibit area. The both were bifurcated in such a way that visitors can have option to visit either one or both of these two attractions. The arrangement of enclosures in zoo exhibit area is as per the broad taxonomic classes. This method will be convenient for management, for visitors, for research and for education.

ZOO EXHIBIT AREA:

The proposed arrangements in the Zoo zone are as follow

1. Birds
- 2 .Primates
- 3 .Smaller carnivores
- 4 .Small mammals
- 5 .Reptiles

The animal exhibit enclosures will be located on one side of the zoo road. The road will be formed with more naturalistic shape which would cover all enclosures on its journey from south-east corner and to ultimately merge back into same entry point. Visitors moving towards south-east side would first pass through aquatic bird's enclosure. Next in the row is an array of bird's enclosures like pheasants, peacocks and parrots which houses various species of their respective families.

Then comes a moated primate's enclosures of Bonnet macaque, Stump tailed macaque, Lion tailed macaque and Common langur, followed by small mammals enclosures of Fox, Jackal, Wolf and Hyena. A small visitor resting shelter would be provided in between with wild life conservation sign boards.

Towards middle of northern side of the zoo road Leopard enclosure with glass viewing gallery will be provided, next to this enclosures of Leopard cat and Jungle were placed followed by reptile enclosure which marks the end of zoo exhibits.

Store section and veterinary hospital complex along with rescue centre would be located in the space between the zoo exhibit area and safari park area which can be accessible only through service road. This section is isolated and strategically located to cater to both safari and zoo animals with ease. The

administrative and residential zone placed outside the zoological park compound which eliminates the human and animal interference.

Sufficient number of resting places is proposed to be developed for visitors with amenities like drinking water, shade and toilets. Tree groves will be developed to provide shades and natural habitat for bird species.

The layout plan is prepared keeping in mind the future expansion of the zoo exhibits.

SAFARI PARK AREA:

Totally 70 Ha of area is earmarked for proposed Safari park.

The following safaris are proposed in the area dedicated for safari park.

1. Herbivores safari
2. Tiger safari
3. Sloth Bear safari

The arrangement of safaris is along the main visitor's road and safari roads are branching out with access control entry and exit points for each safari. The safari roads will be interconnected through couple of loop paths to facilitate quick exit during emergencies.

4. 3. DEVELOPMENT OF ENCLOSURES:

The development of enclosures will be done based on the following considerations.

1. Because of the refractory nature of the topography earmarked for the zoo and availability of minimal plain land / area with gentle slope mostly chain link fencing is proposed as enclosure barrier and moated enclosure is proposed only for primates, which can not only easily climb on the chain link but can also damage it.
2. The animals will have sufficient space for movement.
3. The minimum area prescribed for the respective animals by the Central zoo authority will be adhered to.

4. Suitable environment will be created for the animals so as make the animal feel that the animal is in its natural habitat.
5. The enclosure area will be planted with suitable species to create suitable microclimate and to create shade during hot summer.
6. Good visibility of the exhibited animals by the visitors will be ensured too.
7. The fencing of enclosures will be done by the construction of moats, chain link fencing, toughened glass and other methods as required by the kind of the animals which are housed in the enclosure.
8. The holding area for each animal will also be fixed as per the prescribed minimum area by the CZA.
9. The floor of the holding area will have a slope of 1:30 to enable proper cleaning using pressure water through pipes.
10. Proper drainage systems will be constructed .The holding area will have provision for sliding gates with chain pulley system to enable the required movement of the animal.
11. Service road will be provided to all the enclosures.
12. Proper signage will be displayed at appropriate places to communicate the required information about the animals.
13. Appropriately designed feeding cells for each individual animal of every species would be provided. It would be ensured that every feeding cell unit has adequate aeration and natural light.
14. Appropriate fittings/ structures for enrichment of the environment would be provided in each enclosure to meet the behavioural requirement of the species housed/ displayed.
15. Round the clock potable water supply would be made available at each enclosure.
16. Appropriate arrangement for power supply at every feeding cell/ night shelter unit would be provided.
17. Highest standards of sanitation and hygiene would be maintained at each enclosure in general and the feeding kraals and feeding cells. The flooring and fittings in the kraal and feeding cells shall be so designed that facilities in achieving this objective.
18. Planting of appropriate tree species in requisite number would be done to protect the animals from hot sun by providing adequate shade. Ground flora and shrubs would be nurtured in each enclosure in such a manner that the animals are not unduly exposed to visitors, but the visitors must get adequate opportunity to get the unrestricted view of the animals.

19. Each feeding cell/ night shelter would be provided with a in built squeeze in cage.
20. The enclosure barriers, and all the fitting in the paddocks and feeding shall be made of such design and material that no animal can damage/ tear off/ break down the fittings.
21. Feeding cells/ night shelters should be properly fenced / screened and would be beyond the reach of visitors. The holding area will be hidden behind natural features by suitably camouflaging so that visitors will see only rocky features and not the holding area.

4. 4. **PROMOTION OF RESEARCH ON CONSERVATION:**

Promotion of research on conservation of wild life would be taken up in co-ordination with various organizations/institutions.

4. 5. **PROMOTION OF CONSERVATION EDUCATION AND AWARENESS:**

With a view to enlighten the visiting public, simple and effective signage boards will be set up at each animal enclosure giving basic information of the distinction, distribution and status of each animal. Sign board will also be set up at prominent places with general information on species, distribution, role of wild life in ecology and the need to conserve them. Interested individuals, institutions are encouraged to take up various activities in the zoo like Shramadan for zoo up keep, contributions for maintenance of certain amenities, adoption of animals, sponsoring for zoo literature, publicity in local print and electronic media etc.,
Special programs of lecture, guided tours, competitions etc., would be arranged to foster love for wild life.

It is proposed to arrange visits for school children through NGOs and volunteers.

4. 6. **PROVIDING RECREATION TO PUBLIC:**

Apart from displaying wild animals, lawns, gardens will be established so that the visitor could relax. Amenities like benches, restaurants, toilets will be set up. It is proposed to build monorail transportation, electric cabs for taking the visitors round the zoo. Children play equipments will also be set up with the sponsorship and private agency.

4. 7. LAND STABILIZATION AND PREVENTION OF SOIL EROSION:

1. Wherever the construction of road/ building/ enclosure involves any cutting of hills slopes, provision of appropriately designed retaining wall and breast wall would be provided.
2. Provision of series of check dams would be made across each water stream passing through the zoo area, particularly above the levels where any building/ enclosures/ walls are made.
3. The vegetation across the hill slopes within the zoo area particularly the ground cover and under storey would be planted with appropriate herb and shrub species.
4. Plantation of bamboo and sacchurn species would be done along the high bank of the water streams.
5. Provision of culverts of adequate size and requisite strength would be constructed to ensure that adequate waterway is available to accommodate the flow of water in the stream even in peak flood time. Appropriate arrangement to arrest the debris and silt load should be made on the uphill side of such structures.

4. 8. UTILITY LAYOUT PLAN:

4. 8. 1. WATER SUPPLY SYSTEM:

There is a good potential of ground water in this area, deep bore well would be provided for getting requisite quantity of water for drinking, cleaning and gardening purposed in the vicinity of the water body, below the zoo area. The water taken from the well would be stored in an underground tank constructed for the purpose within few meters from the well. The water stored in the tank would be lifted with the help of lift pump and supplied to over head tanks constructed in the residential area, administrative block, hospital, feed store and animal display area. Additionally, there is a Tungabhadra canal passing close by, from which water can be drawn by obtaining permission from the authorities. A water recycling plant will be set up for recycling the waste water and this water can be used for gardening purposes. Four storage tanks with proper supply networks will be constructed.

4. 8. 2. SEWERAGE DISPOSAL SYSTEM:

Sewage from various enclosures, residential complex, administrative block, hospital, feed store shall be carried through pipelines of appropriate dimension to soak pits constructed at appropriate places. A sewerage treatment plant is also proposed and the treated water will be used for gardening purposes.

4. 8. 3. ELECTRICAL SUPPLY SYSTEM:

To meet the requirement of electricity in the zoo, Electrical connections will be obtained by KARNATAKA POWER TRANSMISSION CORPORATION LTD. High tension connections will be laid and power supply for the zoo, street lights etc., will be provided. Generators will also be provided so that power is not interrupted during the power cuts.

4. 9. VISITORS AMENITIES:

It is estimated that about 5 lakhs tourists visit Hampi annually. The proposed zoo falls in the tourist circuit with Daroji bear sanctuary and hence this proposed zoo is expected to attract a large number of nature loving people. Besides this, efforts will be made to associate schools and expose children to the importance of wild life and conservation ethics. An interpretation center shall be provided to give detailed exposure on wild life conservation through audio visual system. A library with CD-ROM facilities is provided to be built up.

The proposed zoo is about 50 ha. It would be tiring for visitors to go round the enclosures by walking only. Some of the following amenities are proposed to be provided for the movement of the visitors within the zoo area.

1. Battery operated cars/vans will be run all along the main ring road of the Zoo.
2. Restaurants, toilet complexes, resting places, benches, shelters, wheel chairs for physically challenged persons, drinking water facilities, adequate parking facilities, and proper walking paths will be constructed for the benefit of the visitors.
3. Internal paths around the enclosures, service roads for the maintenance of the zoo will also be formed. Proper underground drainage system will be laid out, with main drainage lines and subsidiary drainage links.

4. 10. SECURITY:

The extent of the zoo is very large in the midst of reserve forest which requires additional security arrangements in place. The following arrangements were made to address security concerns.

1. Watch towers are proposed at several locations and at high altitudes.
2. CCTV surveillance will give real time feed to the security section. This feed is to be shared between security and animal section. Complete feed shall be made available to both at the control room, as well as at Curator's room. Similar connection with CCTV's is planned at Entry Gate, Booking counters, to Monitor visitors pressure, and also to watch any pilferage / unauthorized activities at the Entrance.
3. Public address (PA) system is provided inside the zoo premises to convey any important messages. The PA shall be made available to public and in addition to food courts and shops. And the same shall be controlled and operated from security control room.
4. The zoo will have internal communication system in the form of Wireless sets through which communication can be possible with all the keepers, supervisors, and to the required staff to do the monitoring and control of surging visitors / vehicles on holidays / weekends. In addition to that security room, ticket counter and store room from the office of the administrative staff and veterinary hospital will also be connected through wireless.
5. Proper stand-off barrier will be constructed at each enclosure to restrict visitors at safe distance from the animals and ensuring the privacy of animals in its habitat.
6. Check posts and barriers are proposed at various places and frisking of visitors will be done at entrance. Private vehicles will be strictly not allowed inside the zoo premises.
7. Regular patrolling will be carried out at regular intervals to monitor the animals and visitors.

4. 11. DISPOSAL OF SOLID AND LIQUID WASTE:

Solid waste of the zoo is disposed off by burning, by burying inside pit and there is also firewood incinerator which is used for disposal of carcass and bones. The dung's are collected and dump inside the pits away from each enclosure which are later burnt and covered. The disposal of liquid waste is not a problem in the zoo due to its topography. There is no stagnation of water or sewage. Drains and culvert are provided where ever required.

4. 12. UPKEEP AND HEALTH CARE OF ANIMALS:

Zoo animals would be provided four fundamental freedoms viz freedom from thirst and hunger, freedom from physical discomfort caused by various climatic factors, freedom to express their natural behaviour in the company of the other animals pertaining to the same species and freedom from pain and agony caused by injuries and sickness.

4. 12. 1. ANIMAL UPKEEPING:

1. The enclosures shall be so designed that animals get adequate space and appropriate substrate to express their natural behaviour as well as round the clock supply of potable water. No animal shall be kept locked in the feeding cell/ night shelter for unreasonably long period. The number of animals of each species in the respective animal enclosures shall be such that the group becomes socially and genetically viable. The number would not be allowed to exceed the carrying capacity of the enclosure, in the interest of the safety of the animals and availability of requisite physical space to each individual animal.
2. Zoo shall constantly endeavor to infuse new blood into is animal collection to safeguard against the excessive inbreeding leading to development of congenital defects in the animals. Zoo shall keep a constant vigilance to prevent physical handling of animals either by the zoo keepers or by the visitors as a safeguard against the animals getting unnatural traits.
3. Every enclosure would be provided physical environment and other infrastructure that facilitates the animals getting ample opportunity to display species specific behaviour.

4. All the animals in the zoo shall be provided food which meets its nutritional and behavioural requirement fully. It shall be ensured that feed given to the animal is fresh, infection free and high quality. Feeding would be done at a clean and hygienic surface in a kraal / cell free from pests, feral/ wild counterparts.
5. The health of every animal shall be closely monitored round the clock. Appropriate treatment / medical attention shall be provided as soon as it is found that the animal is sick.
6. Zoo shall take due precautions against the left over feed/ animal droppings/ urination impacting the environment of the enclosure/ kraal/ feeding cell. The same should be removed, washed and disposed off in a manner that no adverse impact is caused on the natural environment of the zoo and the water streams/ water bodies in the vicinity of the zoo.
7. All the operations enumerated above should be carried out in such a manner that all the animals have quality life of adequate longevity and can procreate and help in developing a self sustaining population of all the species housed in the zoo. Acquisition of wild animals by the zoo shall be limited to rescued animals and the founder animals for planned breeding program.
8. Zoo shall keep meticulous records of the daily upkeep, feeding, behaviour sickness, health care and postmortem findings in a manner prescribed by the Central Zoo Authority. The data so collected would be regularly monitored and analyzed to evolve.
9. It need not be highlighted that the operation of the zoo and the management and upkeep of the zoo animals and provision of facilities to the visitors involved scientific and technical inputs from the personnel of various disciplines. Therefore, very specific and detailed chain of command and strong coordination mechanism would be necessary. Regular training programmes/ workshops would be necessary to upgrade the scientific and technical skills of the subordinate staff who would be main poll bearer of the operational and management plan of the zoo.

4. 12. 2. HEALTH CARE:

1. Animal healthcare facilities including proper air and light exposure to their retiring cells ensured.
2. Each enclosure will have squeezing cage facility.
3. Separate quarantine wards are proposed for the sick animals to be treated / cared.
4. A well equipped Post mortem ward is proposed with proper platform, sufficient natural light and drain disposal.
5. The zoo should maintain the minimum tranquilizing equipment in good condition with spare equipment capturing to the wild, as follows:

Sl.No.	EQUIPMENT	QUANTITY
1	Rifle Model 60	1
2	Blow Pipe	1
	Accessories	
1	4ml. alum. barrel for metal syringe	10
2	5ml. alum. barrel for metal syringe	10
3	rubber plunger	10
4	Needles with collar art. 3040	10
5	Stabilizers art. 3049	10
6	art 2006 chargers for metal syringes	20
7	art 2013 cartridge {yellow}	20
8	cartridge {brown}	20
9	mini ject 3ml	5
10	mini ject 5ml	5
11	wollen stabilizer art 3092	5
12	Needles art. 3068	10

4. 13. CONSERVATION BREEDING:

Keeping in view the primary objective of the conservation breeding of endangered species, it is intended to identify some core species for special attention. Species like Hyena, wolf, crocodile and birds of Deccan peninsula will be tried for conservation breeding.

4. 14. COMPUTERIZATION OF OFFICE WORK:

There is need for networking all the computers by LAN. Also, internet and email Facilities will be put to use in the zoo.

The entry of visitors / vehicles will be automatically recorded by swiping of the bar coded tickets at the Electronic Gates. This information gets displayed on a monitor at Zoo office. This also helps in motoring the functioning of all gates, as well as flow of visitors at the gates.

4. 15. ADMINISTRATION BUILDINGS:

The following buildings structures are proposed to be constructed.

1. Administrative building.
2. Ticket counter and interpretation centre
3. Veterinary hospital
4. Postmortem center
5. Staff quarters.
6. Gift shops
7. Restaurants
8. Security office
9. Store and kitchen.

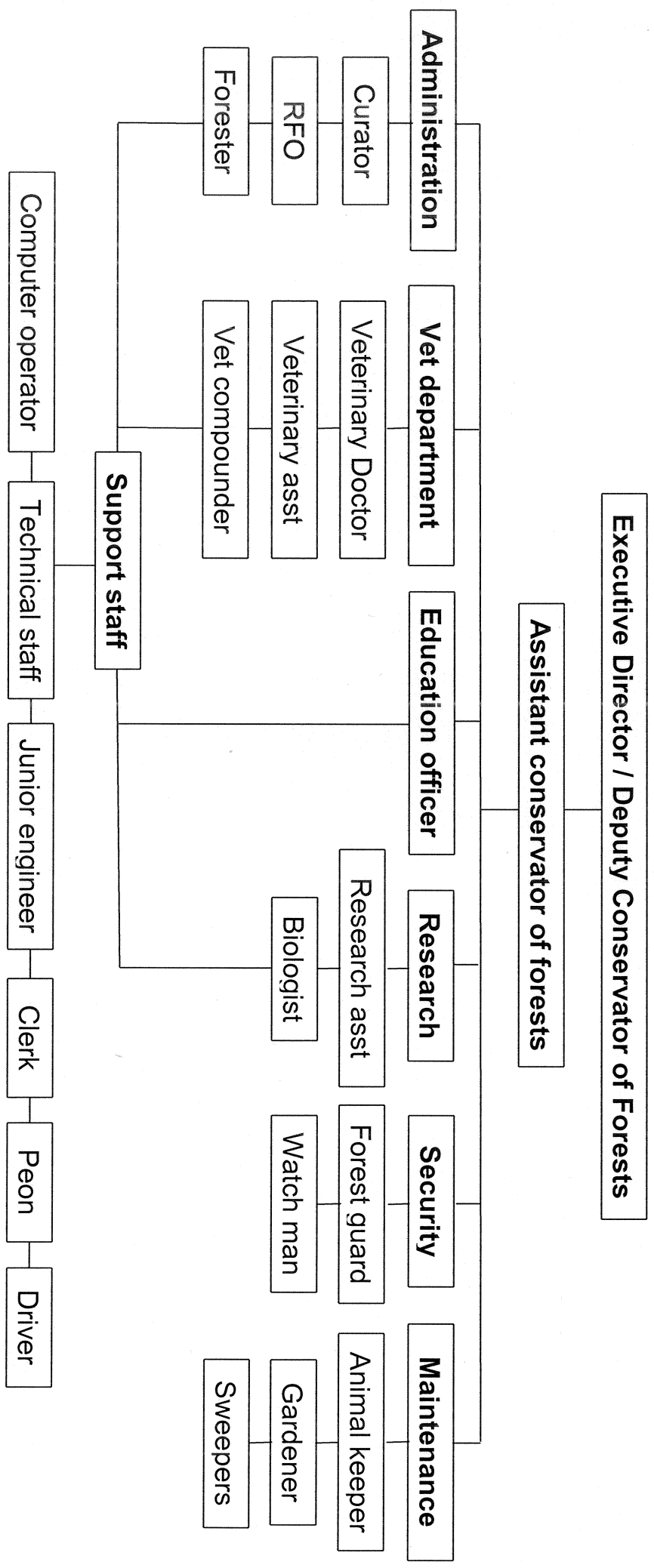
CHAPTER -- 5

5. 1. PERSONNEL PLANNING:

Sl. No.	POST PROPOSED	PROPOSED STRENGTH	DUTIES
Administration			
1	E.D./ Deputy conservator of forests	1	Over all in charge for management of zoo
2	Assistant conservator of forests	1	Administrative in charge of zoo
3	Curator	1	Execution of works.
4	Range forest officer	1	Execution of works.
5	Forester	2	Maintenance of zoo.
Animal upkeep & housing			
6	Head Animal keeper	1	Cleaning the cages, feeding of Animals.
7	Animal keeper	7	Cleaning the cages, feeding of Animals.
8	Asst. Animal keeper	12	Cleaning the cages, feeding of Animals.
Healthcare			
9	Veterinary doctor	1	Supervision of health of animals.
10	Veterinary assistant	1	To assist veterinary doctor.
11	Veterinary compounder	2	Assisting veterinary doctor
Education			
12	Education officer	1	Create awareness, trainings.
Research			

13	Research assistant	1	Conduct research activities.
14	Biologist	1	Create awareness, trainings.
Security			
15	Forest guards	3	Assisting in maintenance of zoo.
16	Watchman	6	Watch and ward for the zoo.
Support staffs			
17	Clerk	3	Administration, accounts.
18	Computer operators	2	Office, ticket counters.
19	Junior engineer	1	Engineering works.
20	Peon	3	Assisting in office works.
21	Driver	4	Operating zoo vehicles.
Maintenance			
22	Gardener	6	Maintain gardens.
23	Sweepers	8	Cleaning all premises.
24	Technical staff(blacksmith, carpenter)	2	Animal enclosures, Other works.
	Total	69	

5. 2. ORGANISATION CHART:



5. 3. FUNCTIONS OF THE STAFF:

5. 3. 1. EXECUTIVE DIRECTOR / DEPUTY CONSERVATOR OF FORESTS:

The Executive Director / Deputy conservator of forests shall work as the head of the Office with overall administrative and financial management control of the affairs of the zoos under the general direction and guidance of the PCCF and other senior Officials. To receive grants and contributions and to have custody of the funds of the Zoo Development Committee and to draw, use, utilize, invest and dispose of the same in the manner to achieve the objectives of the Committee.

To prepare the estimates for the current financial and the budget estimates for the next financial years and submit the same to Govt. of India or Govt. of Karnataka as the case may be within stipulated time. It shall be the duty of the executive director to ensure that all the accounts are kept in proper form as laid down in the account rules in force. The executive director shall prescribe the duties to all the Officers and staffs of the Zoos shall exercise such supervision and disciplinary control as may be necessary.

To co-ordinate and participate in deliberation for animal exchanges, reintroduction of the species and technical pursuits concerning zoos conservations. It shall be the duty of the executive director to guide, co-ordinate and exercise general provisions for overall Scientific Research, Management and other activities of the zoos. To organize / conduct Zoo Development Committee's periodical & annual meetings and seminars, trainings etc.

To plan, formulate and execute various civil and other works for the zoos development and to accord administrative approval/ financial sanction for the same. To work as a drawing and disbursing officer for salaries, wages, travels, materials and supplies expenses, advances and other contingencies.

5. 3. 2. ASSISTANT CONSERVATOR OF FORESTS:

Assistant Conservator of Forests being second in command will be responsible for the Management of zoo. The ACF will be responsible for the Maintenance and security of zoo. To supervise and guide the subordinate staffs to manage the zoo. To supervise the plan and design of the construction and

modification of the animal enclosures, houses, cages etc. and other infrastructure required in order to meet the physiological and biological needs of the animals.

To take action for planned prospective breeding of the animal collection. To deal with the correspondences pertaining to animal exchange and ensure for safe transportation of the animals for the purpose. To ensure proper maintenance of live stock and other inventories of zoo. To promote educational programmer in zoo and environment conservation. To facilitate basic and applied research studies on the behavioural, nutritional and breeding aspects of important indigenous species. To maintain law and order in the zoo and any other work assigned by the curator.

5. 3. 3. CURATOR:

Upkeep and maintenance of animal collection and animal housing, including cleaning and disinfection of animals and enclosures, feeding of animals, keeping a close watch on general health conditions of animals and ensure to treat sick animals on priority basics including crating, shifting and transporting of animals within zoo premises.

5. 3. 4. VETERINARY DOCTOR:

To plan and establish adequate veterinary facilities in the zoo hospital and submit the details of requirements accordingly. To study specific causes of morbidity and mortality and accordingly formulate and adopt measures to prevent diseases among Zoo collections. To undertake the operation of chemical immobilization of animals as and when required and to handle surgical and obstetrical problems. To supervise the sub-ordinate staff of Veterinary Section, Commissary Section and sanitation Section. To prescribe and check the routine animal diet articles and drinking water quality. Frequently visit the zoo animals to checkup health problems and dispense necessary medications. To treat sick animals in the enclosures or at zoo hospital and conduct pathological and microbiological examinations for specific diagnosis of etiology of the condition. To conduct post mortem examination and to collect specimens for Laboratory investigations. To maintain records regarding medical history (In-patient Register, Out-patient Register, Treatment Cards, PM Register and Reports) of animals and disease investigation. To procure, maintain and keep records of equipments and medicines, vaccines reagents

and chemical etc. related to the Veterinary Section. To conduct basic and applied research in the field of Wildlife health.

5. 3. 5. RANGE FOREST OFFICER:

To ensure proper management of the zoo with regard to land resources, assets created enclosures, Landscape and Tourist traffic etc. To ensure security in the zoo premises round the clock. To curb vandalism and take preventive measures to safeguard zoo property and safety to visitors. To check entry of vehicles and regulate the gate entry tickets by posting necessary ticket collectors/ticket checkers and adopt methods deemed fit to avoid mal practices at the main gate. To keep liaison with the police authorities in maintaining law and order problems in the zoo premises.

To entertain public complaints with regard to zoo and take follow up action and submit progress report to the superiors. To maintain records of all the immovable property, valuation and the taxes paid thereof.

To maintain valuation records of places, sheds, enclosures, plants, equipments, machines, crates, trolleys, vehicles etc. To get audit of all the store stocks as and when required and prepare replies for the audit objection regarding the same. To procure License and CITES Certificates for import and export of live Zoo animals. To provide specific instructions and specifications about preparation of Air courier to carry live animals shipment as per rules.

5. 3. 6. FORESTER:

To guide and supervise the junior staffs working in the estate section and maintain their leave records. To take necessary action for procurement of liveries and other non consumable items required for the maintenance of office and field. To take action and dispose of all the unserviceable articles. And weeding of files and papers. To arrange materials and supplies required for work in workshop, carpentry, machinery and printing works, repairs and modifications of cages and enclosures. To supervise all the works of repairs, renovations, modification and preparation of cages and crates. To arrange management of all the field equipments of different sections in working conditions.

To maintain stock register and expenditure and completion of such works. To get verification of all the non consumable store supplies received and issued and submit a detail report for audit. To take attendance of all staff and accord work and fix places of their duties. To take round to ensure that staff are present on their duty area and to ensure security round the clock. To keep the superior authorities informed about law and order problems. To issue gate entry tickets, car entry tickets, guide books, maps etc and deposit of all the revenue with the accounts for verification and signing. Any dispute with the visitors at the gate to be brought to the notice of the curator, ACF or Range Forest Officer. Overall supervision of zoo sanitation and hygiene i.e. cleaning of roads, footpaths, public conveniences etc.

To take measures for the pest control and to check stray dog entrance. To maintain disposal of animal and vegetation waste materials. To ensure proper maintenance of waste burning huts, bone houses and incinerator etc. To prevent unauthorized entry into zoo and help ticket clerks and ticket collectors on such occasions. To check security registers, complaint registers at the main gate. Any other work assigned by the superiors.

5. 3. 7. VETERINARY ASSISTANT:

Assisting the Veterinary Doctor. Accompany and attend to the veterinary Doctor on tour and during field visits, if desired so. Weeding and dusting the official chambers of the Veterinary Doctor, helping Laboratory Veterinary Compounder in attending to animal health care related activities. Making available file, delivery of letters and assisting the Veterinary Doctor and Veterinary Section in day to day works. Any other work assigned by the superiors.

5. 3. 8. FOREST GUARDS:

To watch over and guide the Zoo properly. To assist the animal and garden section staffs in curbing vandalism and preventing any undesired activities in the Zoo premises. To check public vehicles entering the zoo and regulate the movement of visitors at the time of heavy rush. To maintain and enforce security of the assets in the duty areas.

And in the event of any untoward happenings report to higher authority about the same. To report all the lost and found properties to the Superiors/ Range Officer/ Forester. Any other duty assisted by the superiors.

5. 3. 9. ANIMAL KEEPER:

To clean regularly the animal night shelters/houses/crawls/enclosures of animal's wastes, left out food and undesirable objects etc. Regular cleaning of water troughs. To ensure timely feeding and watering of animals. To report to the superiors about the health condition heat, mating, breeding and feeding condition and other observations immediately. To report to the superior-any damage to the enclosures, cages, structures etc for immediate repair. To remove all the foreign materials from the animal enclosures.

To assist in capture, crating and shifting of live animals as and when required and to take dead animals to hospital/ post mortem room for PM examination. To ensure safe and proper custody of Beat furniture's, records, equipments and animal diet medicines etc. To protect the animals from teasing and vandalism, damage to enclosures and signboards fittings and to ensure security of the Zoo and its inmates. To check and ensure proper locking of the enclosures/ cages/houses at least half an hour before the Zoo is closed any other duty assigned by the Head Caretaker.

5. 3. 10. DRIVER:

Operation of Zoo Vehicle and undertaking its petty maintenance works. Maintenance of vehicle trolley. Maintaining log book. Any other work assigned by the supervisors.

5. 3. 11. TECHNICAL STAFF:

To undertake all the fittings, turning and welding works in animal enclosures, cages, houses, cells, squeeze cages and repair and modifications of doors, windows, shelters and repair of all transportation cages, garden implements and machines. Fabrication of frames of transport cages and crates and making of small implements for cleaning works. To prepare and repair wooden animal crates, cages, nest boxes, wooden shelters, doors and windows of the enclosures, houses, cages and public notice

and directional boards and their fixing at the convenient places. To put animal descriptive boards on the enclosures. To undertake all the water works. Maintenance of electrical installations and generator set. To assist education section in organizing exhibitions and displaying and fitting, fixing boards etc.

5. 3. 12.

WATCHMAN:

To watch over and guide the Zoo properly. To assist the animal and garden section staffs in curbing vandalism and preventing any undesired activities in the Zoo premises. To check public vehicles entering the regulate the movement of visitors at the time of heavy rush. To maintain and enforce security of the assets in the duty areas and in the event of any untoward happenings report to higher authority about the same. To report all the lost and found properties to the Superiors/ Range Officer/ Forester. Any other duty assisted by the superiors.

5. 3. 13.

CLERK:

To look after ministerial and administrative work and give timely noting and drafting on the policy matter. To handle and process all the recruitments, disciplinary and other cases of class III and IV employees. To draft clear, precise, noting and communications about the administrative and service matters. To process matters of incidents, honarium, awards, fees, vigilance, disciplinary action etc. Attend to legal matters and audit replies. To take action to invite tenders for diet articles, medicines, stationeries, hardware item and civil works etc. well in advance for the commencing financial year and their finalization.

To look into budget matters. Procurement, storing and supply of stationery. Verification of log books of vehicles/generator. To supervise movements of files, documents, guard files and other correspondences. Taking necessary measures for reduction in administrative work expenditure. To ensure timely preparation and submit all annual reports. To process matters of recruitment, promotion, transfer, superannuation, pension benefits, increments, leave, and selection grades, leave salary and pension cases etc. of employees. To ensure proper entry of records in the book or Service roles of the Zoo employees and keep them in safe custody.

5. 3. 14. PEON:

Maintain all files in safe custody in the record room. Making available files as and when required Weeding and dusting of files. To lift the files in the administration section. Dusting and weeding, delivery of letters and assisting the officials and staffs in their day to day work Attending to the all personal and professional requirements (related to official works) of the officer concerned. Accompany and attend to the officer concerned on tours or during field visits as an orderly, if desired so. Weeding and dusting the official chamber and files etc. of the officer concerned.

5. 3. 15. COMPUTER OPERATOR:

Preparation of resource inventory including wild life and development works under the guidance of superior officers. Preparation of Management plan and perspective planning under the guidance of superior officers. Preparation of general periodic returns under the guidance of superior officers. Preparation of annual plan of operation, Budgeting Monitoring & Evaluation under the guidance of superior officers. Resource inventory such as vehicles, arms, wireless network and other equipment under the guidance of superior officers. Documentation of resources under the guidance of superior officers.

5. 3. 16. JUNIOR ENGINEER:

He should look after all the engineering works in the zoo premises .He should monitor the maintenance of roads, enclosures of the animals, buildings, water supply, electricity supply and other related works assigned by the superiors.

5. x3. 17. EDUCATION OFFICER:

To create general awareness and sensitivity in public about the preservation of wildlife by providing literatures, zoo guide books, handouts, leaflets and organizing audio visual shows, films, exhibitions and competition and teaching lectures about exhibits in zoo. To conduct periodical surveys and analyze the visitors about wildlife at zoo. To assist in various periodical training programs, workshops, seminars, symposia on wildlife management organized by The Zoo authorities. Coordination with other sections of

the Bird Park and zoo for publishing annual reports, bulletin, treatise etc. Taking rounds in display areas and educating the public not to tease zoo inmates, throw stones and food articles into the enclosures. Arrange smooth running of Nature Interpretation Centre in the zoo.

To plan and design standardized signage's system giving complete scientific description of the exhibits at zoo. Maintenance of zoo library. Procuring catalogues and maintaining books, Periodicals, scientific documents etc. in the library. Issue and receipt of library books. To maintain records and files, photographs, TV/DVD in all the garden implements in working condition. To maintain all the relevant expenditure records and inventory of the garden section.

5. 3.18.

RESEARCH ASSISTANT:

To guide and supervise the personals, involved in Research and Education at zoo. To conduct basic and applied research studies on ecology, physiology and animal biology and behaviour of birds and animals at zoo. To maintain Stud books, history cards of various animals at Bird Park and Biological Park. To maintain Stud books, history cards of various animals at zoo. Conceptual planning development and execution of interpretative educational programmers & interpretation center at zoo. To plan and design standardized signage system giving complete specific description of an exhibits at zoo. To assist the management in organizing various wildlife trainings, seminars, symposia, workshops and practical orientations and expositions. To procure audio-visual aids, required for documentation and production of various scientific and technical events store information and data to help wildlife management and education. To produce various publications like zoo guide books, brochures, handouts, leaflets, annual reports, magazine and management plans etc. To undertake the landscaping of the zoo premise. Any other work assigned by the seniors.

5. 3.19.

BIOLOGIST:

Making observations on the behaviour and biology of animals in groups / herds and maintaining meticulous record card of the same, ensuring their upkeep including provision of special diet for pregnant females, nursing mother, newborns / new arrivals, infirm and sick animals, preparation of animal inventory, education, research on behaviour and biology of animal, training, genetic

management of animals by formulating breeding policy and animal exchange. He is also responsible for enrichment of animal enclosure and preparation of brochures, booklets, CDs, signage etc.

5. 3. 20. **GARDENER:**

To maintain lawns and gardens of the Zoo by regular watering, fertilizing, hoeing, weeding and outing grasses. To plant shrubs, herbs, hedges, trees and other adornments on the lawns and grounds. To raise

And maintain plant nursery for replenishing plants and tree collection of zoo premises. To do timely weeding, lopping and pruning of undesired vegetation and suitable use of disposed and decaying vegetation, fallen dead trees and debris. To clean the wastes left by the visitors in the lawn. To report to superiors and control damaging of lawns and grounds by the visiting public. To ensure up-keep of nursery required for plantation, propagation of trees shrubs, herbs, climbers, hedges etc. in the entire Zoo area. Any other duty assigned by the superiors.

5. 3. 21. **SWEEPERS:**

To clean regularly the animal night shelters/houses/crawls/enclosures of animal's wastes, left out food and undesirable objects etc. Regular cleaning of water troughs. To ensure timely feeding and watering of animals. To report to the superiors about the health condition heat, mating, breeding and feeding condition and other observations immediately. To report to the superior-any damage to the enclosures, cages, structures etc for immediate repair. To remove all the foreign materials from the animal enclosures. To assist in capture, crating and shifting of live animals as and when required and to take dead animals to hospital/post mortem room for PM examination.

To ensure safe and proper custody of Beat furniture's, records, equipments and animal diet medicines etc. To protect the animals from teasing and vandalism, damage to enclosures and signboards fittings and to ensure security of the zoo and its inmates. To check and ensure proper locking of enclosures/cages/houses at least half an hour before the zoo is closed. Any other duty assigned by the Head Caretaker.

5. 3. 22. VETERINARY COMPOUNDER:

To arrange requisition for handling and operating medical cases. To assist Veterinary doctor in day to day treatment/dressings and management of surgical and gynecological cases. To maintain stock of medicine and equipments in Zoo hospital. To maintain feeding records of in-door patients. Collection of specimens during Necropsy examination and their preparation for microbiological and pathological laboratory examinations. Processing of relevant samples for detail lab test/examinations. Maintenance of museum specimen and up-keep of their history records. Maintenance of lab equipments/instruments in order and maintaining of their log books. To assist the Veterinary Officer in taking x-ray radiographs of sick animals. Develop x-ray films and after results are recorded to preserve them properly along with the results. To requisition x-ray films, chemicals, cassettes and maintenance of their stock properly. To maintain radiographic lab and x-ray machine, endoscope etc in working condition.

CHAPTER – 6

6. 1. **DISASTER MANAGEMENT:**

The area of the proposed zoo is very large. During summer the dried undergrowth and grass are prone to fire. The area is of open scrub type. Precautionary measures such as fire tracing works can be taken up during the pre summer season. Fire extinguishing equipments are to be installed at strategic points in the zoo.

There is no full proof management system that will prevent destruction and causality in natural calamity; however emergency preparedness shall aid successful control and mitigation. Though the occurrence of such natural and manmade disasters is certain, they are infrequent, and the zoo has to cope with it. To deal with it an Emergency Preparedness Hand Book shall be prepared which will specify the following points:

1. Formation of emergency team with chain of command in the team.
2. Each member and employ should know exactly what his/her role is during a disaster, whom to report and work with.
3. List of the possibilities of disasters and its emergency preparedness in operational and orderly planned manner.
4. List of personal needs like water, food, first aid, lantern, battery, torches stoves, rain/ winter cloth etc. will also be provided in the hand book.

6. 2. POSSIBILITIES OF DISASTERS:

6. 2. 1. FIRE:

Since the area is deciduous forests and the climate is very hot during summer the area is highly prone to fire incidents .To prevent fire incidents and to deal with the possible fire incidents following strategies are proposed to be adopted .

1. Creation of awareness among the adjacent villagers and the visitors by conducting education programs and by putting proper signage's at prominent places inside the zoo
2. Construction of watch towers at elevated places and by intensive patrolling along with network of communication systems.
3. Fire lines will be formed wherever necessary.
4. Fire extinguishing equipments will be provided.
5. Staff will be trained to use fire extinguishing equipments.
6. Smoking will be strictly banned inside the zoo premises.

6. 2. 2. FLOOD:

Chances of floods is very remote .In case of strikes, people can be hired from the nearby town, Hospet to tackle the situation. In case of non cooperation from the food supplying contractor , food for animals can be procured from the nearby town ,Hospet In case of flood occurrence ,Cleaning and sanitation will be undertaken .food items will be stored well above the ground level. Contamination of drinking water will be prevented .Existing fire services, police services will be utilized when necessity arises

6. 2. 3. BREAKDOWN OF LAW AND ORDER:

The management of Zoo may be put under the Essential Service Maintenance Act which will immensely help the zoo in smooth functioning at the time of such law and order breakdown. However preparedness is required in case of law and order breakdown due to external aggression or any other

major situation. The preparedness will mostly concerned with stocking of food item, medicine, and other daily required materials for animal as well as for staff.

6. 2. 4. EVACUATION OF THE VISITORS:

The zoo should have a detailed written protocol for evacuating visitors in hour of every crisis. There should be provision of emergency exhibits and a public address system to communicate to the visitors the routes to be followed to get out of the zoo in the event of any disaster/ crisis. Zoo guides and security guards should ensure that visitors do not panic and get out of the zoo safely through the routes earmarked for the purpose.

6. 2. 5. AVAILABILITY OF PHONE NOS. TO BE CONTACTED AT THE TIME OF DISASTER:

The number of zoo Director, police control room, fire brigade station and the nearest police station should be notified at important points i.e. Security Room, Administrative Block, Hospital, Stores and the animal enclosures.

6. 2. 6. EQUIPMENTS REQUIRED FOR DEALING WITH THE DISASTER:

1. Alarm system
2. Public address system
3. Radio communication
4. Rubber boots
5. Helmets
6. Shovels
7. Pick Axe
8. Welding cutting machine and gas cutter
9. Portable chain saw
10. Portable generator
11. Portable pumping set

12. Ropes & nets
13. Portable cages
14. Construction material
15. Chain link, angles, clamps, iron rods and cement
16. Trator-trolly and portable earth removing equipment
17. Fire-proof dress and goggles
18. Wooden planks & bamboos

CHAPTER -- 7

7. 1. **CONTINGENCY PLAN:**

Zoo should be well equipped and in a state of total preparedness to tackle with any contingency that may arise in the zoo. There should be detailed written plan of operation for dealing with each contingency with the responsibility each zoo personnel clearly spelt out. Shortage of resources should be no excuse for any laxity in implementation of the plan. Absence of particular officer should not lead to any delay in tackling the situation. There should always be alternate decision taking authority in absence of the officer designated for decision making. The contingencies that may arise in the zoo from time to time are briefly summarized below:

7. 2. **ANIMAL RESCUED FROM WILD:**

Whenever any wild animal strays from the wild and enters human habitation or any wild animal becomes a nuisance by attacking human beings and cattle, invariably the help of the Zoological Park is sought in rescuing such animal.

The usual animals, which stray from the wild and enter human habitation, are Panther, Bears, Hyenas, Langur and Monkeys. Among reptiles sometimes Crocodiles need to be rescued... Among Herbivores, Black bucks have been posing problems in the nearby areas .which can be rehabilitated in the proposed zoo.

For capturing animals like, Panthers and Bears, trap cages are needed and considering the demand in the state, at least four trap cages should be ready at any point of time. This number is important, because trapping sometimes becomes time consuming, which may take days together. But sometimes, monkeys are captured by the local bodies like municipalities and Gram Panchayats and for the sake of

custody; the animals are given to Zoo. For this purpose, adequate housing facilities in the form of cages need to be provided. In some cases, crocodiles need to be rescued. For rescuing the animals, the speed with which the zoo management respondents is important. For the purpose of rescuing animals, a Mahindra Pickup Van, a light commercial vehicle is required. This is because bigger cages cannot be transported in Pickup Van.

7. 3.

ESCAPE OF ANIMALS FROM ENCLOSURE:

In the event of escape of animal from enclosure, the same trap cages, which are meant for rescuing animals from the wild, shall be used. An alarm system will be provided to alert security and public address system will warn the public and staffs to take shelter from the stray animal. In order to react fast at any point of time, tranquilizing guns, blow pipes, pistols in good condition should be present. The chemicals and darts are ready at any time. First alarm system has to be in place to alert security personnel and to evacuate or cordon off visitors from the scene of incident.

In case of any animal attacking the visitors, the animal need to be shot with permission of Chief Wildlife Warden and for this purpose 303 Rifle is required with appropriate ammunition. Communication system should be effective in communicating the incident fast either with wireless or any other system.

The equipments required to capture the animal are:

1. Tranquilizing gun
2. Blow dart
3. Jab sticks
4. Squeeze cage
5. Cages of different sizes
6. Transport crates
7. Nets and ropes
8. Plastic Face Mask

9. Poles, ropes
10. Gunny bags and plastic bags

7. 4. MONKEY AND DOG MENACE:

7. 4. 1. MONKEY MENACE:

The best safeguard to eliminate monkey menace is feed all the zoo animals in feeding cells/ kraals covered from the top and putting the leftover food by animals in the bins with latch and lock. The eating houses and restaurant should also put the garbage/ half eaten food in the bins covered from the top.

1. The visitor should be allowed to take out eatables outside the restaurant/ cafeteria.
2. Visitors should not be allowed to take any food item in the zoo.
3. Monkey population, if tending menacing dimensions, the monkeys should be captured vasectomised/ tubectomised and treated from tuberculosis. Once these are infection free could be released in the adjoining forests/ zoo.

7. 4. 2. DOG MENACE:

Proper maintenance of the boundary fence and immediate repair of breach if any, is an effective measure for controlling the dog menace.

1. Security staff at gate duty should exercise strict vigilance to prevent dogs from entering the zoo.
2. Dogs if any enter the zoo should be captured on priority basis and handed over to the NGOs/ Municipal Corporation.
3. Any dog which is sickly and poses that of infection of zoo animals should be eliminated.

7. 5. FEED SUPPLY DURING STRIKES:

As already discussed on disaster management, all provisions which will be sufficient for one month will be procured and stored in the feed store. Perishable items like fruits, vegetable will be procured departmentally without depending on the contractor. The most crucial item of feed in the case of Zoo Park is beef, chicken and eggs. Deep freeze facilities are erected, where beef, chicken and eggs can be

stored for two or three days. In case of supply not being restored within two or three days, all this can be arranged departmentally with the involvement of uniformed staff.

7. 6.

SNAKE BITE:

Zoological Park is home to many local reptiles like cobra, common krait, Russel vipers etc., the animal keepers will have to handle poisonous snakes. There are plenty of chances of visitors and animal keepers getting snake bite. In order to prevent any such casualties on account of snake bites Anti venom serum stock has to be stored in the zoo hospital for any eventuality. First aid kit also needs to be kept at all import points in the zoo park.

7. 7.

INJURY TO VISITORS:

The zoo Park is expected to attract more visitors every year. During summer holidays and other festival holidays, the general visitation is expected to be more than thousand. During which time supervision of the staff may suffer. In order to avoid visitors getting injured

1. Putting signboards on every enclosure to keep away from the enclosures.
2. Providing effective standoff barriers.
3. Keeping first aid kit at zoo hospital for attending and providing the patient preliminary care.
4. Transport the patient to nearest hospital if so required.

7. 8.

VISITOR FALLING INSIDE THE ANIMAL ENCLOSURE:

If the visitors accidentally jumps into the enclosures immediately the keeper shall attempt to take the animals in the feeding cells by putting food there. If the trick does not work, the animal would be chemically immobilized. In the mean while, attempt would be made to keep the animal away from the visitor by shouting, pocking with bamboo bale and throwing stones. Telescopic type ladders made of aluminum should be kept ready the visitors fell inside the moated enclosure. The animal Curator would be physically present at the site during rescue operation.

To prevent visitor falling into moats, the railing and live hedge to set up around each moat has to be strengthened.

7. 9. FIGHTING AMONGST ANIMALS:

Effort would be made to drive back the fighting animals to the feeding cells. If that does not work, chemical immobilization can be resorted to. Fighting amongst some species is part of breeding behaviour. Zoo personnel would take care that they do not disrupt the breeding activity of the animals in their enthusiasm to stop fighting between the animals. Possibilities of infighting amongst animals can be minimized through gradual and planned introduction of a new animal in a group and only keeping such animals in a group which compatible.

In species like Barking deer and Primates, killing of sub-adult reaching adulthood by the dominant male are quite high. Such sub adults would be removed from the group and kept in kraals.

7. 10. EPIDEMICS:

Zoo shall ensure that all the animals in the zoo and the animals in the adjoining villages are provided prophylactic treatment including vaccination as per advice of the zoo veterinarian. The diseases requiring vaccination are:

Ungulates:

1. Anthrax
2. Foot and mouth disease
3. Hemorrhagic Septicemia
4. Trypanosomiasis
5. Babesiosis

Carnivores:

1. Feline Panleucopenia
2. Canine distemper
3. Feline calicivirus

As soon as some animal shows symptoms of a infectious disease, it should be removed immediately from the group and kept in isolation ward for treatment. En-mass vaccination in panic herding the animal at a time should invariably be avoided. In case of doubt that some animal has died of anthrax, no postmortem should be done and the carcass buried intact, to safeguard against other animals being infected by anthrax.

7. 11. BREAK UP OF POWER SUPPLY :

Zoo should keep back up generator at the Administrative Block, zoo hospital and the water pumping house to meet the crisis created by break up of power supply.

CHAPTER – 8

8. 1. CAPACITY BUILDING:

Regular trainings to all the staff will be conducted for keeping the staff and officers fit and better equipped in Zoo Management. Significant improvements and innovations are taking place in Zoo Management elsewhere in India and abroad. There is need to equip the staff with these trends. With this end in view, the following types of trainings are proposed at the Zoological Park.

8. 2. IN HOUSE TRAINING:

It is proposed to organize training sessions with such people for the benefit of youngsters. A group of youngsters is to be attached to such senior staff for some time, so that all the nuances of the job can be learnt "on job". Also, working in groups fosters team spirit, which is the modus operandi of modern corporate work.

8. 3. TO ENCOURAGE SPECIALISATIONS:

If staff is assigned jobs which they like and love, then the results can be significant. Therefore, it is desirable to elicit the preferences of each person, and allot jobs accordingly. This helps in specialisation in the field.

8. 4. INTERACTION WITH RETIRED STAFF:

Several of the present staff is children of retired / deceased employees, taken on compassionate grounds. It is indeed a sort of family tradition. To make such traditions effective, it is also desirable to

conduct interactive sessions of select staff with notable retired staff in Animal Keeping, Gardening, Security, Workshop and Veterinary care.

8. 5. FORMATION OF QUALITY CIRCLES:

With a view to assess each situation at ground level and suggest cost effective reliefs, there is need to form Quality Circles in each section via: Animal Keeping, Gardening, Security, Workshop, Veterinary care. These circles shall discuss emerging problems, and suggest solutions. This will enable participation approach and ingenious in management.

8. 6. ANNUAL REWARDS:

With a view to recognize the services of industrious staff, it is proposed to institute awards in each of the fields via:

- | | |
|---------------------------------|----------------|
| 1) Memorial Award: | Animal keeping |
| 2) Memorial Award: | Gardening |
| 3) Chief Wildlife Warden Award: | Security |

Monthly list of best staff in each of the above categories will be displayed. At the end of the year, Rewards/ Awards would be given.

8. 7. RECREATION / RELAXATION FOR STAFFS:

To enable the staff to work in groups, and coordinate with each other, team games play a great role. Therefore, it is proposed to set up an Amenities Centre, with facilities for indoor and outdoor games. Also, it is proposed to organize "Cultural evening" or "talent shows" for encouraging cultural talents and fine arts in them.

In order to make them stay back at their places of work, during lunch breaks, it is all necessary to provide facilities for dining nearer to their places of duty, and relax their itself.

8. 8. NATIONAL LEVEL TRAININGS:

The supervisory cadre like curator, Asst. conservator of forests, range forest officers, Foresters, Animal Keepers etc., needs to be trained in wildlife management and animal handling.

Deputing the supervisory staff to different training institutes for workshops and seminars is proposed. This will keep the supervisory staff in good stead as it will help them in keeping touch with latest developments on the wildlife front.

Special training programs have to be organized for supervisory cadre like head animal keepers and park supervisors in the zoo park itself or other zoological parks of the state.

Some times a tour of other zoological parks outside state by Head animal keepers will go a long way in improving their outlook, as they will be picking up some good practices adopted in other Zoo Parks.

8. 9. TRAINING ABROAD:

Deputation of supervisory staff to outside the country will equip them with latest animal handling techniques. Trainings in abroad will be scheduled as felt necessary.

CHAPTER -- 9

9. 1. E – GOVERNANCE:

The E-governance is a potent tool for bringing efficiency, transparency and reliability in the zoo management. The Director, Asst. Director, Curator, Education officer and the Research and Monitoring Officer would have computers, which will be networked with a LAN and the data in the entire computer would be accessible to every officer. Important data on management of the zoo, the inventory of animals, details of housing facility, feeding schedule, births and deaths of animals, causes of death would be made accessible on the website of the zoo. Scientific or behaviour and biology of important animal species and their conservation status would also be made available on the website. Visitors should have the facility of booking their ticket at home.

All the transactions ,ticket issuing ,administrations ,web site of the zoological park , stores section, veterinary hospital , will be under the e-governance by giving contract to an efficient software company .

All the zoo workers could be given smart card through which time of their arrival and departure from the zoo could be entered in the computer.

4	Parking & Garden			4000			25
5	Administrative Building			200	2		60
6	Veterinary Hospital Building			400	1		50
7	Staff Quarters			160	4		100
8	Store cum Kitchen			200	1		40
9	Toilets			75	4		16
10	Watch tower				4		7
11	Postmortem			30	1		8
12	Visitors road	3167		11876.2	5		94.65
13	Service road	5070		19012.5			213.83
14	Approach road	610		2287.5			13.25
15	Zoo road	1500		5625			47.15
16	Safari road	4500		16875			141.3
17	Culverts				16		10
18	Enclosures area			17250			700.6
19	Safari area			700000			552.75
20	Entrance / Kiosks / Logo						50
21	Sanitation						120
22	Water supply & digging of bore wells				4		250
23	Vehicles						35
24	Plantations						75
25	Nalla Bunds / Check						50

	dams					
26	Miscellaneous					6
27	Electrical works & Solar lights					150
28	Procurement of animals					150
29	Rescue centre & burial yard			209580		24
	Total					3431.53

10. 2. 3.

DETAILS OF THE AREA WISE EXPENDITURE OF ENCLOSURES

Sl no	Name of the animal	Area allotted in the zoo In sq mts	Expenditure In lakhs Rs
	Safari		
1	Herbivores safari	300000	154.50
2	Tiger safari	200000	203.75
3	Sloth beer safari	200000	194.50
	TOTAL	700000	552.75
	Zoo		
5	Aquatic birds	4000	263.84
6	Pheasants	750	24.20
7	Peacocks	1000	30.27
8	Parrots & Parakeets	750	24.20
9	Bonnet macaque	1000	26.13
10	Stump tailed macaque	1000	26.13

11	Lion tailed macaque	750	20.09
12	Common langur	1000	26.13
13	Fox	700	22.67
14	Jackal	700	22.67
15	Wolf	800	26.77
16	Hyena	800	26.77
17	Leopard	1000	68.35
18	Leopard cat	500	26.39
19	Jungle cat	500	26.39
20	Marsh crocodile	1000	19.80
21	Gangetic gavial	1000	19.80
	TOTAL	17250	700.60
	GRAND TOTAL	717250	1253.35

10. 3. MAINTENANCE OF ZOO:

The details of financial requirement for maintenance for different items are given below:

DETAILS OF ITEM WISE ANNUAL MAINTENANCE COST.

Rupees in Lakhs.

Sl.No	Item of Work	Average Annual Requirement
1	Salaries & allowance to staff	102
2	Feed & Fodder supplies, maintenance of Fodder Plot, Kitchen, Feed store etc.	75
3	Maintenance of Animal Enclosures, seasonal arrangements etc.	10
4	Maintenance of visitors facilities, roads/ paths,	10

	landscapes etc.	
5	Maintenance of Water pipelines, pumps, sumps, cost of water charges etc.	10
6	Maintenance of Drains, filters etc.	3
7	Maintenance of Electric lines, consumption charges etc.	20
8	Maintenance of Zoo Vehicles	10
9	Maintenance of Hospital Facilities, Medicines etc.	12
10	Maintenance of buildings quarters etc.	12
11	Maintenance of main gate complex service charges etc.	10
12	Maintenance of service stores, workshop etc.	10
13	Maintenance of Concertina Coil, Solar fencing, CCTV, Security Services etc.	10
14	Procurements/Transfer of Animals	20
15.	H.R. Development	10
16	Research services, including services of Biologists	4
17	Repairs to Signages, Brochures, Annual Reports	7
18	Maintenance of Zoo office, including miscellaneous contract services	15
19	Training Physical and Chemical Immobilisation of Animals.	5
20	Eradication of weeds and climbers in the Zoo	10
	Total	365

10. 4. EXPENDITURE FOR THE STAFF:

The annual financial requirement for the salaries of the staff proposed is given below . This will be met by the state government.

Sl no	Post proposed	Proposed strength	Annual salary in lakhs Rs
1	E.D. / Deputy conservator of forests	1	7.00
2	Assistant conservator of forests	1	4.50
3	Veterinary doctor	1	4.50
4	Range forest officer	1	3.50
5	Forester	2	4.00
6	Veterinary assistant	1	2.00
7	Forest guards	3	4.25
8	Animal keeper	20	15.50
9	Driver	6	7.0
10	Technical staff (blacksmith, carpenter)	2	3.00
11	Watchman	4	5.50
12	Clerk	3	5.00
13	Peon	3	4.25
14	Computer operators	2	3.00
15	Junior engineer	1	2.50
16	Education officer	1	3.00
17	Research assistant	1	3.00

18	Gardener	6	8.25
19	Sweepers	8	9.00
20	Veterinary compounder	2	3.00
	Total	69	101.75

10. 5. FEED & FODDER:

Animals housed in the zoo will be provided food and fodder as per the prescriptions of the Zoo authority of Karnataka. The quantity and the cost of feed and fodder are based on the guidelines issued by the ZAK which is given below. The animals and birds will be provided feed and fodder for 7 days in a week.

COST OF FEED AND FODDER FOR THE ANIMALS

Sl no	Name of the animal	No. of animals to be kept	Diet kg/day/animal	Diet /day for all the animals	Kind of diet	Cost/day In Rs
1	Lion	4	12	48	Buffalo meat	1920
			1.3	5.2	chicken	
2	Tiger	4	12	48	Buffalo meat	1920
			1.3	5.2	chicken	
3	White tiger	4	12	48	Buffalo meat	1920
			1.3	5.2	Chicken	
4	Panther	4	4	16	Buffalo meat	1920
5	Leopard cat	4	4	16	Buffalo meat	680
					& liver	

6	Jungle cat	4	0.1	0.4	Beef & other items	60
7	Small Indian civet	4	0.1	0.4	Chicken &	80
					Other items	
					Other items	
8	Palm civet	4	0.1	0.4	Chicken &	80
					Other items	
					Other items	
9	Sloth bear	4	0.2	0.8	Bread &	360
					Other items	
					Other items	
10	Himalayan black bear	4	0.3	0.9	Bread &	440
					Other items	
					Other items	
11	Wolf	4	0.5	2	Buffalo meat & other items	600
					Buffalo meat	
					Buffalo meat & other items	
12	Jackal	4	0.5	2	Buffalo meat & other items	280
					Buffalo meat	
					Buffalo meat & other items	
13	Fox	4	0.5	2	Buffalo meat & other items	280
					Buffalo meat	
					Buffalo meat & other items	
14	Hyena	4	3	12	Buffalo meat & other items	600
					Buffalo meat	
					Buffalo meat & other items	
15	Otter	4	2	8	Fish & other items	480
					Buffalo meat	
					Buffalo meat	
16	Jaguar	4	12	48	Buffalo meat	1920

			1.3	5.2	& Chicken	
					Chicken &	
17	Wid dog	4	1	4	Other items	600
18	Swamp deer	4	LS	LS	Grass&others	320
19	Rhino	4	LS	LS	Grass & others	1500
20	Hippopotamus	4	LS	LS	Green grass & others	1780
21	Wild ass	4	LS	LS	Greengrass&others	640
22	Nilgai	4	LS	LS	Green grass & others	640
23	Black buck	4	LS	LS	Green grass & others	360
24	Spotted deer	4	LS	LS	Green grass & others	360
25	Bison	4	LS	LS	Green grass & others	3200
26	Giraffe	4	LS	LS	Cut branches & others	1120
27	Zebra	4	LS	LS	Green grass & others	580
28	Wild boar	4	LS	LS	vegetables	120
29	Sambar deer	4	LS	LS	Green grass & others	360
30	Deer fallow	4	LS	LS	Green grass & others	360
31	Hog deer	4	LS	LS	Green grass & others	240
32	Bro antler deer	4	LS	LS	Green grass & others	480
33	Barking deer	4	LS	LS	Green grass & others	320
34	Orangutan	4	LS	LS	Fruits, vegetables	820
35	Chimpanzee	4	LS	LS	Bread, Milk & others	820

36	Baboon	4	LS	LS	Bread, Apple & others	400
37	Golden langur	4	LS	LS	Bread, Milk & others	400
38	Capped langur	4	LS	LS	Bread, Milk & others	400
39	Lion tailed	4	LS	LS	Bread, Milk & others	400
40	Nilgiri langur	4	LS	LS	Bread, Milk & others	400
41	Rhesus Macaque	4	LS	LS	Bread, Milk & others	400
42	Indian porcupine	4	LS	LS	Potato, carrot & others	120
43	Indian giant squirrel	4	LS	LS	Bread, Appel & others	260
44	King cobra	4	LS	LS	Rat	4
45	Cobra	4	LS	LS	Rat & Frog	8
46	Russel viper	4	LS	LS	Frog	4
47	Krait	4	LS	LS	Frog	4
48	Python	4	0.1 No.	0.4 No.	Rabbit	80
49	Rat snakes	4	LS	LS	Rat	8
50	Water snakes	4	LS	LS	Rat	8
51	Green whip snakes	4	LS	LS	Rat	8
52	Mugger crocodile	4	0.1	0.4	Beef & fish	20
53	Caiman spectacled	4	0.1	0.4	Beef & fish	20
54	Gharial	4	0.15	0.6	Fish	24
55	Monitor Lizard	4	0.25	1	Chicken, frog	44
56	Tortoise starred	4	0.05	0.2	Greens, carrot	28

57	Water tortoise	4	0.05	0.2	Greens, carrot	28
58	Indian peafowl	4	LS	LS	Bread, Milk & other items	120
59	Love bird	4	LS	LS	Veg green & others	80
60	Ducks	4	LS	LS	Veg green & others	48
61	Plum headed parakeet	4	LS	LS	Bread&others	100
62	Rock pigeon	4	LS	LS	Bread&others	100
63	Grey heron	4	LS	LS	Fish	16
64	Emus	4	LS	LS	Fish	80
65	Green pheasant	4	LS	LS	Maize, Jola& others	140
66	Lady Amherst pheasant	4	LS	LS	Maize, Jola & others	140
67	Kalij pheasant	4	LS	LS	Maize, Jola	140
68	Pelican grey	4	LS	LS	Maize, Jola & others	140
69	Great white Pelican	4	LS	LS	Maize, Jola & othersw	140
70	Flamingo	4	LS	LS	Maize, Jola & others	140
71	Java sparrow	4	LS	LS	Bread, Banana& others	100
72	Peafowl white	4	LS	LS	Bread, Banana& others	100
73	Swan black	4	LS	LS	Veg green	48
74	Rose ringed Parakeet	4	LS	LS	Bread, Banana & others	100
75	Duck shoveler	4	LS	LS	Bread, Banana & others	100

76	Parakeet alexandrine	4	LS	LS	Bread, Banana & others	100
77	Large Egret	4	LS	LS	Bread, Banana & others	100
					TOTAL	33260

10. 6. LIST OF ITEMS OF MAINTENANCE:

The items which are necessary for the maintenance of the zoo are given below .The financial requirement will be met by the state government .A reserve fund will be kept in the Zoo development committee by receiving contributions from the BATF and publics so that it will be used in emergency cases .

Sl.No.	Particulars
1	Salaries & allowance to staff
2	Feed & Fodder supplies, maintenance of Fodder Plot, Kitchen, Feed store etc.
3	Maintenance of Animal Enclosures, seasonal arrangements etc.
4	Maintenance of visitors facilities, roads/ paths, landscapes etc.
5	Maintenance of Water pipelines, pumps, sumps, cost of water charges etc.
6	Maintenance of Drains, filters etc.
7	Maintenance of Electric lines, consumption charges etc.
8	Maintenance of Zoo Vehicles
9	Maintenance of Hospital Facilities, Medicines etc.
10	Maintenance of buildings quarters etc.
11	Maintenance of main gate complex service charges etc.
12	Maintenance of service stores, workshop etc.

13	Maintenance of Concertina Coil, Solar fencing, CCTV, Security Services etc.
14	Procurements/Transfer of Animals
15	Conservation Education, including guide facilities.
16	H.R. Development
17	Research services, including services of Biologists
18	Repairs to Signage's, Brochures, Annual Reports
19	Maintenance of Zoo office, including miscellaneous contract services
20	Training Physical and Chemical Immobilization of Animals.
21	Eradication of weeds and climbers in the Zoo

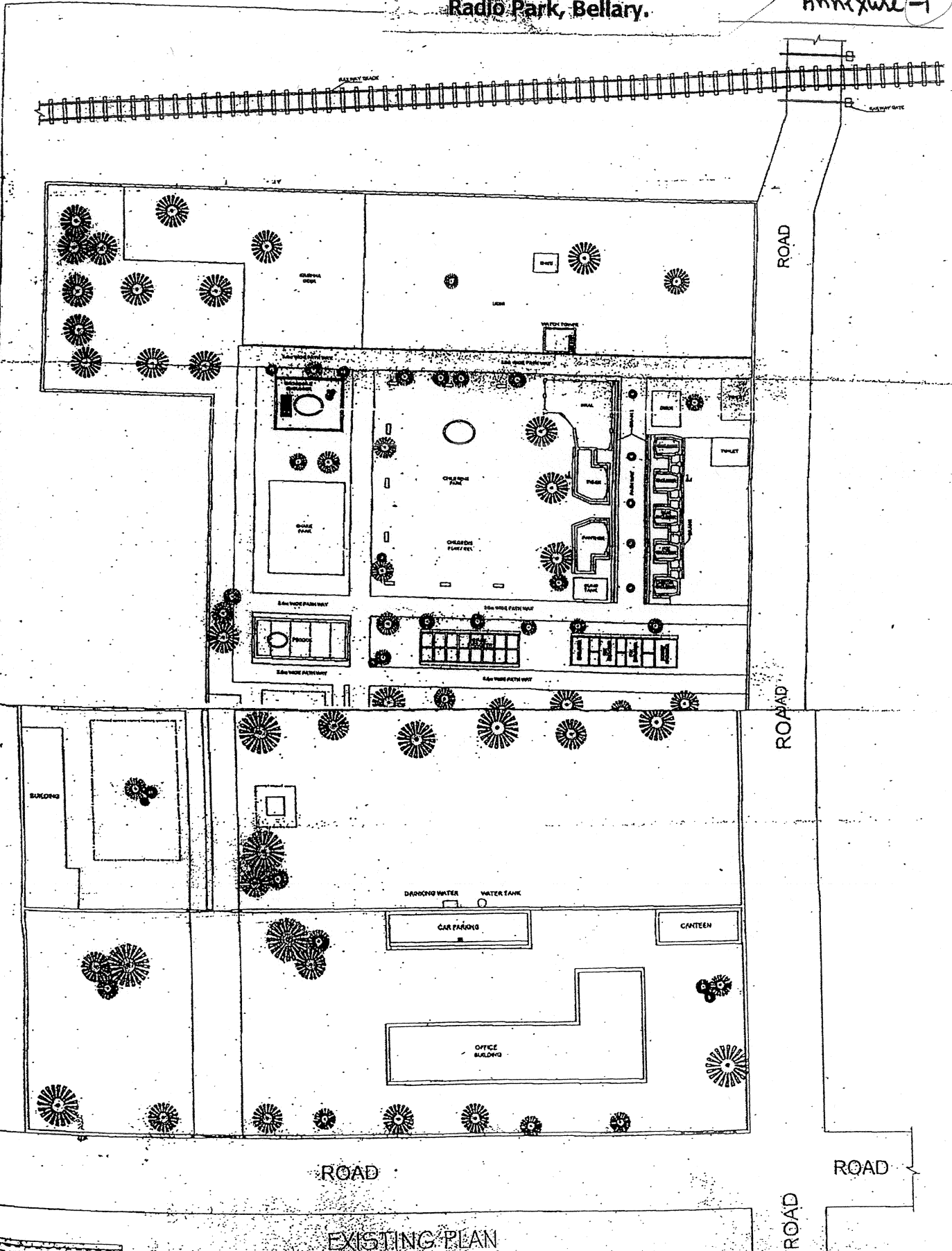
10. 7. REVENUE EXPECTED:

The revenue for the zoo is obtained by way collection from the following items

Sl.No	Particulars	Amount in lakhs Rs.
1	Entry fees from visitors ,about 3.0 lakhs visitors annually	150.00
2	Vehicles parking collections	15.00
3	Animal adoption collections	10.00
4	Rent collections from restaurants and other stalls	5.00
5	Donations from publics , other agencies	25.00
	TOTAL	205.00

Children's Park cum Mini Zoo,
Radio Park, Bellary.

Annexure - 1



ANNEXURE - 1

ANNEXURE - 2

11-03-2001 15:55

11-03-2001 15:55 TEL: 011-23389911

P: 02

श्री
परिचय पत्र
श्री बाबू - 110003
MINISTER
ENVIRONMENT & FORESTS
GOVERNMENT OF INDIA
NEW DELHI-110003

cm/s. 24/6/2001
24/9

श्री बाबू
परिचय पत्र
श्री बाबू



D. O. No. 25-1/2000-CZA

Dear Thiru. S.M. Krishna JI, Vanakkam.

The Central Zoo Authority is quite concerned about the state of zoos in Karnataka. You might be aware that almost every town in your State has a mini zoo. Most of the mini zoos have inadequate land area and cramped cages for housing the animals. The Central Zoo Authority has been requesting the State Government to close down such zoos. The list of the zoos is annexed. You may kindly issue necessary direction in this regard.

I would like to inform you that while on the one hand, the Central Government wants to close cramped and ill planned zoos, it is providing substantial financial support for upgrading such zoos, which have potential to improve. Recently, we have sanctioned Rs. 166 lakhs for modernization of Lion and Tiger Safari, Shimoga. Government of India is also keen that Bellary which is one the major cities should have a modern zoo. The area of the present zoo is only 1.2 ha. and the animals like Tigers, Panthers, Deer Species etc. are housed in dingy cages with little space for movement of these wild animals. Central Zoo Authority has been requesting Karnataka to either go for creation of a modern zoo at an alternative site or close down the existing zoo and transfer the animals to the zoos at Bannerghatta, Shimoga and Mysore. However, no action has been taken on the directions of the Central Zoo Authority.

You may like to direct the authorities concerned to take necessary action on the lines suggested above and rehabilitate the animals in recognized zoos and rescue centres in your State.

Will regards,

Yours sincerely,

Thiru. S.M. Krishna,
Hon'ble Chief Minister of Karnataka,
Bangalore.
Encl. As above

(T. R. BAALU)
T. R. BAALU

Camp : Hospel.
DI : 07.12.2002

PATTANAIK, IFS (Retd.)
Formerly Addl. Principal

Chief Conservator of Forests - Orissa,
81, Fisheries Lane, Buddeshwar Colony,
Bhubaneswar - 751 006 (Orissa).

Dear Sri Sahai,

As requested, I visited the proposed site for shifting of the present Bellary Zoo to Bilikalil West Reserve Forest in Hospel Range of Bellary Division which is situated about 2 kms from Kamalapur town, about 4 kms from Hampi, 14 kms from Hospel and 56 kms from Bellary.

I had earlier visited the site located at Alipur which is 6 kms from Bellary on Bellary-Hospel road. The present site which is part of Bilikalil West Reserve Forest (total area of 1200 ha.) appears to be more suitable compared to the previous site due to the following reasons :

1. The soil is more stable in the new site, as the site near Bellary has black cotton soil.
2. This is close to the Tungabhadra canal system and has good water availability. Besides this, ground water survey has indicated that the ground water availability is quite good.
3. The site is undulating and interspersed with hillocks and valleys, these features shall make the zoo interesting.
4. The floristic diversity of the area is far better than the previous site and the plantation taken up earlier has done well despite low rainfall.
5. Being in the close proximity of Vijayanagar ruins of Hampi, this will be an excellent addition to the tourist circuit as this can provide nature education to the visiting public.
6. With proper planning this can be a good Zoological park housing mainly the animals of the region provided the Zoo Authority of Karnataka decides to shift the Zoo to Hospel.
7. A nursery and a field unit of Karnataka Wild Life ^{work} is already operational close to the site, which will be an added advantage. An area of about 60 Ha. on the Eastern part of the forest block including a nice valley and gentle slope shall be quite suitable for the proposed Zoo.

Thanking you,

Yours sincerely,

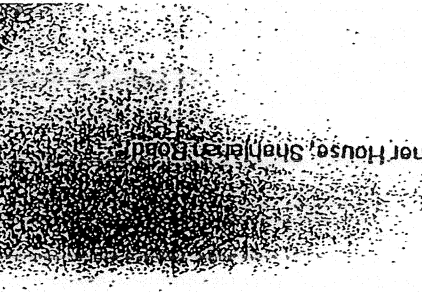
(S.K. PATTANAIK)

385

10/1/12

Sr. R.M.N. SAHAI
Member Secretary,
Zoo Authority of Karnataka,
Mysore Zoo Campus,
MYSORE - 570 010.

Copy forwarded to the Member Secretary, Central Zoo Authority, Annex-VI, Bikaner House, Shantipur Road,
New Delhi for information.



ANNEXURE 4

११/११/११

११/११/११

To

The Addl. Principal Chief Conservator of Forests & Member Secretary,
Zoo Authority of Karnataka,
Sri Chamarajendra Zoological Gardens Premises,
Indira Nagar, Mysore - 570 010 (Karnataka).

Sub:- Master (layout) Plan of the Relocation of Bellary Zoo to Atal Bihari
Vijapayee Zoological Park in Bilikal Reserve Forests, Kamalapur near
Hospet, Bellary, Karnataka.

Ref:- Your office letter No. MSY/55/BLY/2001/V2 dated 05.11.2012.

Sir,

Reference is invited to the above cited subject.

Submitted Master (layout) Plan of the Relocation of Bellary Zoo to Atal Bihari
Vijapayee Zoological Park in Bilikal Reserve Forests, Kamalapur near Hospet, Bellary was
scrutinized by the Expert Group on Zoo Designing of the Central Zoo Authority and
recommended for approval. Accordingly, the Master (layout) Plan was placed before the
63rd Meeting of the Technical Committee of the Central Zoo Authority held on 5th December
2012. The committee members approved in principal the Master (layout) Plan of the
Relocation of Bellary Zoo to Atal Bihari Vijapayee Zoological Park in Bilikal Reserve Forests,
Kamalapur near Hospet, Bellary subject to changes in location of exhibits (copy enclosed) as
recommended by the Expert Group on Zoo Designing of the Central Zoo Authority.

In order to send you a copy of the duly signed and approved Master (layout) Plan of
the Relocation of Bellary Zoo to Atal Bihari Vijapayee Zoological Park in Bilikal Reserve
Forests, Kamalapur near Hospet, Bellary, you are requested to submit the soft copy of the
digitized Master (layout) Plan, showing contour details in any of the format i. e. AUTOCAD/
COREL DRAW/JPEG/TIFF/PDF files on a CD/DVD to this office, at the earliest.

In the meantime you should prepare master plan as per approved layout plan and
submitted for scrutiny by members of the Expert Group on Zoo Designing at the earliest for
final approval.

(B. S. Bonal)
Member Secretary

Enc: as above.
Copy for favour of information & necessary action to:-

1. The Chief Wildlife Warden, Government of Karnataka, Mangalore.
2. The Executive Director & Deputy Conservator of Forest, Atal Bihar Vijapayee Zoological Park, Kamalapur, Hospet Tq. Bellary District, Karnataka.

(B. S. Bonal)
Member Secretary

(B. S. Bonal)
Member Secretary

Yours faithfully,

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
Central Zoo Authority

DATE: 18.12.2012

F. No. 19-80/93-CZA(104) Vol. II (M) 11/88/1



Annexure - 5